The New Brunswick Museum
Le Musée du Nouveau-Brunswick

Catalogue of Type Fossils in the New Brunswick Museum

Randall F. Miller

1988

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NEW BRUNSWICK MUSEUM

LE MUSÉE DU NOUVEAU-BRUNSWICK

CATALOGUE OF

TYPE FOSSILS IN THE

NEW BRUNSWICK MUSEUM

Randall F. Miller

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Natural Sciences Division
New Brunswick Museum
277 Douglas Avenue
Saint John, N.B.
E2K 1E5

Publications in Natural Science No. 7

Publications de Sciences Naturelles No. 7

This volume is dedicated to two tireless pioneers of Canadian palaeontology, George Frederic Matthew and Charles Frederick Hartt. Their work helped to establish the basis for much of our knowledge of the geology of eastern Canada, particularly the palaeontology of the Saint John region.

Their dedication, not only to their particular science, but to scientific pursuit through the Natural History Society of New Brunswick, helped to develop the New Brunswick Museum and the collections we value today.

George Frederic Matthew
(1837-1923)

Charles Frederick Hartt
(1840-1878)

ABSTRACT

This catalogue contains information to update the current holdings of the type collection of fossil material from the Natural Sciences Division of the New Brunswick Museum. All of the fossil material was collected prior to 1980, but is comprised primarily of type fossils described by George Frederic Matthew between 1865 and 1921. The status of many of the fossils is in need of revision. This catalogue will serve as a starting point for future work. Included are invertebrate, vertebrate, and plant type fossils.

RESUME

Ce catalogue contient de l'information qui actualise le contenu de la collection de matériel fossile de la Division des sciences naturelles du Musée du Nouveau-Brunswick. Tout le matériel date des collections organisées avant 1980, mais comprend essentiellement les types de fossiles décrits par George Frederic Matthew entre 1865 et 1921. Une bonne partie de ce matériel a besoin d'être révisé. Ce catalogue devrait servir de point de départ aux travaux qui seront entrepris à l'avenir. Il comprend les fossiles de vertébrés, d'invertébrés et de plantes.

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ACKNOWLEDGEMENTS

This catalogue was initiated while I was under contract to the New Brunswick Museum and completed as a full time curator of the geology collections. I would like to thank the Board of the New Brunswick Museum and the Director, Dr. Alan McNairn, for their committment to developing the geology collection.

Special thanks are also due to Donald F. McAlpine, Head of the Natural Sciences Division, for his hard work in ensuring that the geology collections be recognized.

The history of the New Brunswick Museum geology collection has created close ties with many of the major collections in Canada. The people in charge of those collections deserve special mention for their help. T. Bolton and M. Copeland (Geological Survey of Canada), I. Birker and R. Carroll (Redpath Museum), C.R. Harington and G. Fitzgerald (National Museum of Natural Sciences) and J. Waddington, P.H. von Bitter, D. Collins, and K. Seymour (Royal Ontario Museum) have all provided assistance with information concerning their collections.

Carol Rosevear, our museum librarian deserves special thanks for teaching me how to use this computer and for climbing three flights of stairs every time I had a glitch. The Saint John Naturalists Club and Mrs. Hazen Inches must also be mentioned for their financial support in obtaining the computer equipment. Stephen R. Clayden offered suggestions for formatting the manuscript. I would also like to thank Diane N. Buhay for proofreading the manuscript. T. Bolton and M. Copeland of the Geological Survey of Canada and R. Pickerill of the University of New Brunswick took time to review the manuscript.

With this first catalogue of the NBM type fossil collection we hope to enhance the value of the New Brunswick Museum's palaeontological collection by presenting type material primarily from the last century. Undoubtedly, there will be other type material to be added from the older collections in time, but we hope this first offering will inform palaeontologists of the whereabouts of some long sought after fossils. All the mistakes are mine and, in an odd way, I hope this catalogue becomes quickly outdated !

Randall F. Miller
Assistant Curator of Geology

1988

INTRODUCTION

The New Brunswick Museum originated with the collections of Abraham Gesner, the first provincial geologist in New Brunswick, and the founder of Gesner's Museum which opened in 1842 (Squires, 1945). The first Gesner catalogue published in 1842 listed 1,596 geological specimens, many of which remain in the museum's present collection.

The second stage in the development of the New Brunswick Museum was based on the efforts of the Natural History Society of New Brunswick, active from 1862 to 1932 (Matthew, 1912; Squires, 1945). Wide ranging collecting by its members and regular publication of the Bulletin of the Natural History Society of New Brunswick expanded the society's museum and laid the foundation for the present collection. Several of its members distinguished themselves in the geoscience community of the late ninteenth century. Their collections make up not only a substantial portion of the New Brunswick Museum holdings, but add significantly to collections of other museums as well (Royal Ontario Museum, Redpath Museum). George Frederic Matthew (Bailey, 1923; Sarjeant, 1980; Miller, 1987; Miller 1988; Landing and Miller, 1988) and Charles Frederick Hartt (Matthew, 1890, Sarjeant, 1980) were the two most influential palaeontologists in the society. They worked closely with Sir J.W. Dawson, principal of McGill College in Montreal, and author of **Acadian Geology**.

This catalogue lists the type fossils, as defined below, that are stored in the palaeontological collections of the Natural Sciences Division, New Brunswick Museum. Much of this material represents types described by George F. Matthew in the latter part of the nineteenth century and the early twentieth century. Syntypic series were commonly established by Matthew and splitting of his collection following his death in 1923 has led to a scattering of types between various institutions. Duplicate material was deposited in the Royal Ontario Museum, Toronto; the Geological Survey of Canada collections, Ottawa; the Redpath Museum, Montreal and the Museum of Comparative Zoology, Cambridge, Massachusetts. All of these collections must be examined to ensure the validity of the New Brunswick Museum type collection.

Although much of Matthew's collection was acquired by the Royal Ontario Museum, many of his type specimens remained as part of the collections of the Natural History Society of New Brunswick. Later revisions of Matthew's types did not always include specimens housed at the New Brunswick Museum causing confusion about the status of some specimens. As a preliminary list, this catalogue makes no attempt to validate the species identification, rather it lists those specimens described as types or figured in the literature. Undoubtedly there are errors in assigning type status to some specimens, particulary brachiopods and trilobites; however, this catalogue makes available the first list produced from this museum and we hope that errors will be corrected as specialists re-examine our collections. We hope this catalogue will serve as a working document to assist in the revision of the collection.

Taxa published as "variety" (VAR) or "mutation" (MUT) have been treated as subspecies. Their type specimens are treated as primary types. Some specimens labelled as "type" appear to have no reference. These have not been included in this catalogue and many remain for further investigation and clarification of their status. The type categories used in this catalogue are as follows (Bolton, 1960; Brunton et al., 1985):

Holotype: the single specimen taken as the 'type' by the original author of the species.

Paratype: a specimen or specimens, supplementary to the holotype, used by the original author as the basis of a new species. Specimens need only to be mentioned in the original description.

Syntype: one of several specimens of equal rank upon which a species is based, no one specimen being designated as the holotype.

Lectotype: a single specimen, selected from a syntypic series, subsequent to the original description, to serve as the holotype.

Paralectotype: any other specimen of a syntypic series from which a lectotype has been designated.

Neotype: a specimen, preferably from the original locality and stratigraphic horizon, selected to replace the holotype if the latter is lost or destroyed.

Figured Specimen: a specimen which has been figured in whole or in part in scientific literature. It must be uniquely identifiable with the illustrations and documented accordingly.

Cited Specimen: a specimen specifically mentioned in the literature and uniquely identifiable by description or by reference to it's unique identity number.

Referred Specimen: reference made to individuals or groups of specimens, but not uniquely identified, in a specific collection.

Casts of some specimens are also listed to document their existence as reference specimens. Original casts of reptile/amphibian tracks exchanged between Sir J.W. Dawson and G.F. Matthew are of particular interest. Referred specimens have not always been included. For example, some of Matthew's collection of Cambrian fossils from Mount Stephen, British Columbia (Matthew, 1899), probably fall into this category. They will be treated in a later catalogue as more information becomes available.

This catalogue is arranged taxonomically and where appropriate the types have been listed in stratigraphic order. The catalogue is divided into three parts;

Part I - Invertebrates

Part II - Vertebrates

Part III - Plants

Records are presented in the following format;

Genus species Author
[# specimens]
Type designation
Catalogue #
References
Age, Formation, Locality
Collector, Year
REMARKS:

In many instances the collector and year have not been verified or are unknown and have been omitted from this catalogue. Specimens are cited under their original name or the name they are given in the New Brunswick Museum collection. When known, they are cross-referenced to their currently accepted names. Matthew often published under different names than are used on the specimen label. Paralectotype status is assumed based on the status of specimens listed in the Royal Ontario Museum collection.

An index is provided at the end for easy reference. Copies of most publications listed in the bibliography are available at the New Brunswick Museum Library and a working library is keyed to the collection. Synonomies may seem a bit long for a type catalogue; however, much work is necessary to up-date the status of the specimens and we hope this format will encourage researchers to help us in this task. The original catalogue is stored on 5.25" floppy disk on a Reflex database and WordPerfect editor. The type records are being prepared for the Canadian Heritage Information Network (CHIN) National computer database.

In general, the palaeontological collections are arranged stratigraphically according to standards set out in the "Guidelines for Curation of Geological Materials" developed by the Geological Curators Group (Brunton et al., 1985).

The following acronyms or abbreviations are used to identify collections;

GSC - Geological Survey of Canada, Ottawa, Ontario
MCZ - Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA
NBMG - New Brunswick Museum (Palaeontology), Saint John, New Brunswick
RM - Redpath Museum, McGill University, Montreal, Quebec
ROM - Royal Ontario Museum, Toronto, Ontario

and the following "Type Catalogues" are referenced regularly;

Alison, D. and Carroll, R. 1972. Catalogue of Type and Figured Fossils in the Redpath Museum, McGill University. Redpath Museum, McGill University, Montreal, 173 p.

Bolton, T.E. 1960-1982. Catalogue of Type Invertebrate Fossils of the Geological Survey of Canada, Vols. 1-7, Energy, Mines and Resources, Ottawa.

Waddington, J., von Bitter, P.H., Collins, D. 1978. Catalogue of Type Invertebrate, Plant and Trace Fossils in the Royal Ontario Museum. Life Sciences Miscellaneous Publications, Royal Ontario Museum. Alger Press, Toronto, 151 p.

PART I INVERTEBRATES

Euphe
at
L. Cardal
Lancaster
N.B.

Reprinted from Bulletin XV of the Natural History Society of New Brunswick.

ARTICLE II.

DESCRIPTION OF AN EXTINCT PALÆOZOIC INSECT, AND A REVIEW OF THE FAUNA WITH WHICH IT OCCURS.

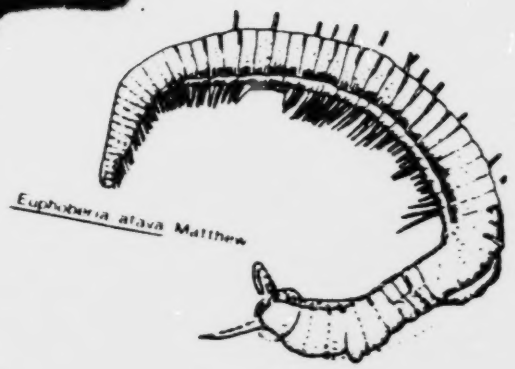
BY G. F. MATTHEW, D. Sc., F. R. S. C.

Read 4th May, 1897.

The fortunate preservation of the remains of land-animals, consisting of snails, myr[illegible] crustaceans and insects, in the finer beds of a delta d[illegible] ier Palæozoic time, near St. John, N. B., m[illegible] some conception of the inhabitants of [illegible] t age.

A knowledge [illegible] imals is of the greatest interest [illegible] ld the doctrine of the [illegible] the later forms of animal [illegible] riter to assemble in [illegible] publication, [illegible] mals, [illegible] fore the Carbon[illegible] nd include [illegible] con-[illegible] odern [illegible]

In pre[illegible] two object, [illegible] antiquity and have also th[illegible] the that lived in the Carboniferous age, [illegible] nentry, in France, and has been de[illegible] This insect, which was nearly a foot [illegible] comparison of the venation of its wi[illegible] of this ancient fauna of eastern Can[illegible]



Euphoberia atava Matthew
NBMG 3022
Pennsylvanian, "Fern Ledges"
Saint John, New Brunswick

PROTISTA, Foraminifera

Orbulina ingens Matthew
[1]
Syntype
NBMG 3202
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci., vol. 14, p. 110, pl. 1, fig. 4.
Cambrian, Saint John Gp., Div. 1b2, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 11.

Orbulina intermedia Matthew
[2]
Syntypes
NBMG 3203
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci., vol. 14, p. 110, pl. 1, fig. 3.
Cambrian, Saint John Gp., Div. 1b2, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 11.

BRACHIOPODA

Acrothele abavia Matthew
[3]
Syntypes
NBMG 3204
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 15, figs. 3a-3d, 4a, 4b.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 100, pl. 4, figs. 3a-3d, 4a, 4b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 635.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3b, U. Etcheminian, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE ROM catalogue, p. 35.

Acrothele abavia Matthew
[1]
Syntype
NBMG 3205
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 15, figs. 3a-3d, 4a, 4b.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 100, pl. 4, figs. 3a-3d, 4a, 4b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 635.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3c, U. Etcheminian, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele abavia Matthew
[3]
Syntypes
NBMG 3206
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 15, figs. 3a-3d, 4a, 4b.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 100, pl. 4, figs 3a-3d, 4a, 4b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 635.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3e, U. Etcheminian, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele abavia Matthew
[2]
Syntypes
NBMG 3207

Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 15, figs. 3a-3d, 4a, 4b.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 100, pl. 4, figs. 3a-3d, 4a, 4b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 635.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3e, U. Etcheminian, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele avia Matthew
[1]
Paralectotype ? or Referred Specimen
NBMG 3209
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 396.
Walcott, C.D. 1912. United States Geol. Surv., Mon. 51, p. 634.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3d, U. Etcheminian, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele avia MUT **puteis** Matthew
REMARKS: SEE: Acrothele puteis Matthew

Acrothele matthewi VAR **costata** Matthew
[2]
Syntypes
NBMG 3211
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. vol. 14, p. 128, pl. 5, fig. 9.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 653.
Cambrian, Saint John Gp., Div. 1b2, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 36.

Acrothele matthewi VAR **costata** Matthew
[1]
Syntype
NBMG 3212
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. vol. 14, p. 128.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 653.
Cambrian, Saint John Gp., Div. 1b5, Catons Island, Kings Co., New Brunswick.
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 36.

Acrothele matthewi VAR **prima** Matthew
[1]
Paralectotype ?
NBMG 3213
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 41, pl. 5, figs. 16, 16a.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 653.
Cambrian, Saint John Gp., Div. 1b1, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Lectotype designated by Walcott, this Matthew specimen labelled "type", uncertain if figured. SEE: ROM catalogue, p. 36.

Acrothele proles Matthew
[3]
Paralectotypes ?
NBMG 3214
Matthew, G.F. 1902. Nat.

Hist. Soc. N.B., Bull. XX, p. 400, pl. 17, figs. 3a-3e.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 654, pl. 62, fig. 4.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Indian Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 36.

Acrothele puteis ? Matthew
[1]
Syntype ?
NBMG 3215
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 16, figs. 5a, 5b.
Matthew, G.F. 1903. Geol. Surv. Can., Rpt. No. 797, p. 100, pl. 4, figs. 5a, 5b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 636.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3d, Gregwa Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, all others "cotype", may be Matthew's holotype. Uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele puteis Matthew
[2]
Syntypes ?
NBMG 3216
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 398, pl. 16, figs. 5a, 5b.
Matthew, G.F. 1903. Geol. Surv. Can., Rpt. No. 797, p. 100, pl. 4, figs. 5a, 5b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 636.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3d, Gregwa Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 35.

Acrothele subsidua White
[1]
Referred Specimen
NBMG 3188
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 110.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami
REMARKS: Possibly one of specimens referred to by Matthew in paper.

Acrothyra proavia Matthew
[1]
Holotype or Syntype ?
NBMG 3219
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 202, pl. 3, figs. 2a-2f.
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 386, pl. 14, figs. 2a-2g, 3a-3f.
Matthew, G.F. 1903. Geol. Surv. Can., Rpt. No. 797, p. 90, pl. 2, fig. 2a-2g, 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 717.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3e, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, all others "cotype", this may be Matthew's holotype. Uncertain if figured. SEE: ROM catalogue, p. 36-37.

Acrothyra proavia prima Matthew
[1]
Holotype or Syntype ?
NBMG 3220
Matthew, G.F. 1901. Trans. Roy. Soc. Can., vol. 7, sec. IV, p. 93, figs. 1-6.
Matthew, G.F. 1901. Nat. Hist. Soc. N.B., Bull. XIX, p.

303, figs. 1-6.
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 389, pl. 14, figs. 4a-4e.
Matthew, G.F. 1903. Geol. Surv. Can., Rpt. No., p. 93, pl. 2, figs. 4a, 4f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 717.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3a, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
Matthew, G.F.
REMARKS: Labelled type, may be Matthew's original holotype, uncertain if figured. SEE: ROM catalogue, p. 37.

Acrothyra sera Matthew
REMARKS: SEE: Acrothyra signata sera Matthew

Acrothyra signata sera Matthew
[4]
Syntypes
NBMG 3217
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 383, pl. 13, fig. 3a-3f.
Matthew, G.F. 1903. Geol. Surv. Can Rpt. No. 797, p. 87, pl. 1, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 718.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 37-38.

Acrothyra signata sera Matthew
[2]
Syntypes
NBMG 3218
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 383, pl. 13, fig. 3a-3f.
Matthew, G.F. 1903. Geol. Surv. Can Rpt. No. 797, p. 87, pl. 1, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 718.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 37-38.

Acrotreta baileyi Matthew
[1]
Paralectotype ?
NBMG 3221
Matthew, G.F. 1886. Trans. Roy. Soc. Can,. vol. 3, sec. IV, p. 36, pl. 5, figs. 13, 13a-13c.
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 395, pl. 16, figs. 1a-1d.
Walcott, C.D. 1912. United States Geol. Surv., Mon. 51, p. 676, pl. 77, figs. 2a-2d.
Cambrian, Saint John Gp., Div 1(d?), Belyeas Landing, Long Reach, Kings Co., New Brunswick.
REMARKS: Labelled type, may be Matthew's original holotype, uncertain if figured. SEE: ROM catalogue, p. 38-39.

Acrotreta baileyi Matthew
[11]
Paralectotype ?
NBMG 3222
Matthew, G.F. 1886. Trans. Roy. Soc. Can,. vol. 3, sec. IV, p. 36, pl. 5, figs. 13, 13a-13c.
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 395, pl. 16, figs. 1a-1d.
Walcott, C.D. 1912. United States Geol. Surv., Mon. 51, p. 676, pl. 77, figs. 2a-2d.
Cambrian, Saint John Gp., Div 1(d?), Belyeas Landing, Long Reach, Kings Co., New Brunswick.
REMARKS: Labelled cotype,

uncertain if figured. SEE: ROM catalogue, p. 38-39.

Acrotreta cf. **A. baileyi** Matthew
[3]
Referred Specimens
NBMG 3190
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
B.E. Walker
REMARKS: Possibly specimens referred to by Matthew in paper.

Acrotreta papillata Matthew
[4]
Syntypes
NBMG 3223
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 390.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 95.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 718.
Cambrian, Div. E1d, Boundary Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, but not from type locality. Uncertain if figured. SEE: ROM catalogue, p. 39.

Acrotreta sagittalis magna (Matthew)
REMARKS: SEE: **Linnarssonia belti magna** Matthew

Botsfordia pulchra (Matthew)
[5]
Syntypes
NBMG 3224
Matthew, G.F. 1889. Can. Rec. Sci., vol. 3, p. 303, figs. 1-8.
Matthew, G.F. 1890. Trans. Roy. Soc. Can., vol. 7, sec. IV, p. 151, pl. 8, figs. 1a-1m, 2a-2c.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 607.
Cambrian, Saint John Gp., Div. 1b2, Catons Island, Kings Co., New Brunswick.
G.F. Matthew 1888
REMARKS: Labelled type, uncertain which specimens, if any, figured. SEE: ROM catalogue, p. 41.

Iphidea pannula White
[1]
Referred Specimen
NBMG 3185
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 110.
Cambrian, Mount Stephen, British Columbia.
REMARKS: Possibly one of specimens referred to by Matthew in paper.

Iphidea pannula White
[1]
Referred Specimen
NBMG 3186
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 110.
Cambrian, Mount Stephen, British Columbia.
R.G. McConnell 1886
REMARKS: Possibly one of specimens referred to by Matthew in paper.

Iphidea pannula White
[1]
Referred Specimen
NBMG 3187
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 110.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami 1891
REMARKS: Possibly one of specimens referred to by Matthew in paper.

Kurtogina latourensis Matthew
[4]
Syntypes

NBMG 3230
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 42, pl. 5, figs. 18, 18-18c.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 282.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 741.
Cambrian, Saint John Gp., Div. 1c, Seely St., Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 48.

Kurtogina latourensis Matthew
[4]
Syntypes
NBMG 3231
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 42, pl. 5, figs. 18, 18-18c.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 282.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 741.
Cambrian, Saint John Gp., Div. 1c, Seely St., Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 48.

Kurtogina latourensis Matthew
[2]
Syntypes ?
NBMG 3232
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 42.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 741.
Cambrian, Saint John Gp., Div. 1c, Belyeas Landing, Long Reach, Kings Co., New Brunswick.
REMARKS: Labelled cotype, not from type locality. SEE: ROM catalogue, p. 48.

Leptobolus atavus Matthew
[2]
Paralectotypes ? or Referred Specimens
NBMG 3233
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 106.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 479.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3d, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 48.

Leptobolus atavus Matthew
[4]
Paralectotypes ? or Referred Specimens
NBMG 3234
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 106.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 479.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3e, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 48.

Leptobolus atavus Matthew
[1]
Paralectotype ? or Referred Specimen
NBMG 3235
Matthew, G.F. 1903. Geol.

Surv. Can. Rpt. No. 797, p. 106.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 479.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 48.

Leptobolus collicia Matthew
[6]
Paralectotypes ?
NBMG 3237
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 200, pl. 1, figs. 3a-3e.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 112, pl. 6, figs. 3a-3e.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3e, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1899 or 1900 ?
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 50.

Leptobolus collicia Matthew
[1]
Paralectotype ?
NBMG 3238
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 200, pl. 1, figs. 3a-3e.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 112, pl. 6, figs. 3a-3e.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 50.

Leptobolus collicia Matthew
[3]
Paralectotypes ?
NBMG 3239
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 112.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Indian Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 50.

Leptobolus collis Matthew
[2]
Syntypes
NBMG 3236
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 114.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3d, Indian Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 48.

Leptobolus collis Matthew
[1]
Syntype
NBMG 3239
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 114.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald

Fm., Div. E3d, Indian Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype. On same rock specimen as Leptobolus collicia Matthew. SEE: ROM catalogue, p. 48.

Leptobolus collis Matthew
[2]
Syntypes
NBMG 3240
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 114.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 486.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Indian Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 48.

Leptobolus gemmulus (Matthew)
[2]
Syntypes
NBMG 3241; NBMG 2342
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 41, pl. 12, figs. 8a-8c.
Matthew, G.F. 1903. Geol. Soc. Can. Rpt. No. 797, p. 190.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 499.
Cambrian, Saint John Gp., Div. 3c, Navy Island, Saint John, New Brunswick.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 48.

Leptobolus gemmulus (Matthew)
[4]
Figured Specimens ?
NBMG 3243; NBMG 3244
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 190, pl. 14, figs. 1a-1c.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 499.
Cambrian, Div. C3c, McLeod Brook, Barasois, Cape Breton, Nova Scotia.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 48.

Leptobolus cf. **grandis** Matthew
[1]
Referred Specimen
NBMG 3194
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami 1891
REMARKS: Possibly one of the specimens referred to by Matthew in paper cited above.

Leptobolus cf. **grandis** Matthew
[1]
Referred Specimen
NBMG 3195
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami 1891
REMARKS: Possibly one of the specimens referred to by Matthew in paper cited above.

Leptobolus cf. **grandis** Matthew
[1]
Referred Specimen
NBMG 3196
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami 1891
REMARKS: Possibly one of the specimens referred to by Matthew in paper cited above.

Leptobolus cf. **grandis** Matthew
[1]
Referred Specimen
NBMG 3830

Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
REMARKS: Possibly one of the specimens referred to by Matthew in paper cited above.

Leptobolus insula Matthew
[3]
Syntypes
NBMG 3245
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 110, pl. 6, figs. 4a-4c.
Walcott, C.D. 1912. United States Geol. Surv, Monogr. 51, p. 480, pl. 35, figs. 8, 8a.
Cambrian, MacMullin Fm., Div. 1a, McFee's Point, (Young's Pt.) George River, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 48.

Lingulella aspera Matthew
[1]
Syntype
NBMG 3246
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 204, pl. 15, figs. 2a-2d.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 529.
Cambrian, Div. 2c, McNeil Brook, Mira River, Cape Breton, Nova Scotia.
M.A.H. Foord 1874
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 53.

Lingulella atava (Matthew)
REMARKS: SEE: Leptobolus atavus Matthew

Lingulella atava insulae (Matthew)
REMARKS: SEE: Leptobolus insula Matthew

Lingulella collicia (Matthew)
REMARKS: SEE: Leptobolus collicia Matthew

Lingulella collicia VAR **collis** (Matthew)
REMARKS: SEE: Leptobolus collis Matthew

Lingulella dawsoni Matthew
[1]
Syntype ?
NBMG 3249
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 33.
Cambrian, Saint John Gp., Div. 1c, Hanford Brook or Portland, Saint John, New Brunswick.
REMARKS: In box labelled 'type specimens'. SEE: ROM catalogue, p. 50.

Lingulella dawsoni Matthew
[1]
Syntype ?
NBMG 3250
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 33.
Cambrian, Saint John Gp., Div. 1c, Porters Brook, St. Martins, New Brunswick.
REMARKS: In box labelled 'type specimens', not from type locality. SEE: ROM catalogue, p. 50.

Lingulella escasonie Matthew
[5]
Syntypes ?
NBMG 3252
Matthew, G.F. 1901. Nat. Hist. Soc. N.B., Bull. XIX, p. 270.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 456.
Cambrian, Div. 3b, McIntosh Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Specimens labelled type, not from type locality. SEE: ROM catalogue, p. 54.

Lingulella exigua (Matthew)
REMARKS: SEE: Lingulepis starri MUT exigua Matthew

Lingulella grandis (Matthew)
REMARKS: SEE: Leptobolus grandis Matthew

Lingulella gregwa Matthew
[2]
Referred Specimens or
Syntypes ?
NBMG 3253
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 51.

Lingulella gregwa Matthew
[1]
Syntype
NBMG 3254
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 199, pl. 1, figs. 1a-1f.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1899
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 51.

Lingulella gregwa Matthew
[2]
Syntypes
NBMG 3255
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 199, pl. 1, figs. 1a-1f.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Gregwa Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1899
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 51.

Lingulella gregwa Matthew
[1]
Syntype
NBMG 4000
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 199, pl. 1, figs. 1a-1f.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., George or Gregwa Brook ?, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1899
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 51.

Lingulella gregwa Matthew
REMARKS: SEE: Lingulepis gregwa Matthew

Lingulella laevis Matthew
[2]
Paralectotypes ?
NBMG 3259
Matthew, G.F. 1892. Trans. Roy. Soc. Can, vol. 9, sec. IV, p. 39.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 512.
Cambrian, Saint John Gp., Div.

3a, Carleton Shore, Suspension Bridge, Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 51.

Lingulella laevis VAR **grandis** Matthew
[1]
Syntype
NBMG 3260
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 200.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 512.
Cambrian, Saint John Gp., Div. 3a, Carleton Shore, Suspension Bridge, Saint John, New Brunswick.
REMARKS: Labelled type. SEE: ROM catalogue, p. 52.

Lingulella longovalis Matthew
[2]
Syntypes
NBMG 3261
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 123, pl. 7, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 536.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 52.

Lingulella longovalis Matthew
[1]
Syntype
NBMG 3262
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 123, pl. 7, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 536.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 52.

Lingulella radula VAR **aspera** Matthew
REMARKS: SEE: Lingulella aspera Matthew

Lingulella selwyni Matthew
[1]
Referred Specimens ?
NBMG 3266
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 116.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 413.
Cambrian, MacMullin Fm., Div. 2a, McFee's Point, George River, Cape Breton, Nova Scotia.
G.F. Matthew 1899
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 53, 57.

Lingulella selwyni Matthew
[5]
Syntype
NBMG 3267
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 255.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 116.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 413.
Cambrian, MacMullin Fm., Div. 2a, McFee's Point, George River, Cape Breton, Nova Scotia.
REMARKS: Specimens labelled type, uncertain if figured. SEE: ROM catalogue, p. 53, 57.

Lingulella cf. **L. starri** (Matthew)
[11]
Figured Specimens ?
NBMG 3263
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 193, pl. 14, figs. 2a-2c.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 559.
Cambrian, Div. C2b, McLean Brook, Mira River, Cape Breton, Nova Scotia.
REMARKS: Labelled cotype, may be Matthew's specimens of Lingulella starri VAR. SEE: ROM catalogue, p. 53.

Lingulella triparilis (Matthew)
REMARKS: SEE: Obolus triparilis Matthew

Lingulepis gregwa Matthew
[1]
Syntype
NBMG 3256
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 199, pl. 1, figs. 1a-1f.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 51, Lingulella gregwa.

Lingulepis gregwa Matthew
[3]
Syntypes
NBMG 3257
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 199, pl. 1, figs. 1a-1f.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126, pl. 9, figs. 3a-3f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1d, Boundary Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1899
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 51, Lingulella gregwa.

Lingulepis gregwa Matthew
[4]
Referred Specimens ?
NBMG 3258
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 126.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 554.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1d, Boundary Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 51, Lingulella gregwa.

Lingulepis cf. **L. starri** VAR **exigua** Matthew
[1]
Syntype
NBMG 3265
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 197, pl. 14, fig. 3a.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 551.
Cambrian, Div. C2a, McLean Brook, Mira River, Cape Breton, Nova Scotia.
REMARKS: Labelled cotype, appears similar to figure. SEE: ROM catalogue, p. 50.

Lingulepis triparilis Matthew
REMARKS: SEE: Obolus triparilis Matthew

Lingulobolus affinis (Billings)
[1]
Figured Specimen
NBMG 3268
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 261, pl. 1, fig. 4a.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 431.
Ordovician, Great Bell Island, Conception Bay, Newfoundland.
J.P. Howley ?
REMARKS: Labelled cotype, ventral valve resembling figure 4a.

Lingulobolus affinis (Billings)
[2]
Figured Specimens
NBMG 4001
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 261, pl. 1, fig. 4b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 431.
Ordovician, Great Bell Island, Conception Bay, Newfoundland.
J.P. Howley ?
REMARKS: Specimens labelled cotype, dorsal valves resembling figure 4b.

Linnarssonia belti MUT **magna** Matthew
[1]
Syntype
NBMG 3269
Matthew, G.F. 1897. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 169, pl. 1, fig. 1a.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 687, 706.
Cambrian, Saint John Gp., Div. 1d, Hastings Cove, New Brunswick.
G.F. Matthew 1897 ?
REMARKS: Labelled type, matches figure by Matthew.

Linnarssonia belti MUT **magna** Matthew
[1]
Syntype
NBMG 4002
Matthew, G.F. 1897. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 169, pl. 1, fig. 1b.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 687, 706.
Cambrian, Saint John Gp., Div. 1d, Hastings Cove, New Brunswick.
G.F. Matthew 1897 ?
REMARKS: Labelled type, matches figure by Matthew.

Mepoptoma amii Matthew
[1]
Holotype ?
NBMG 3198
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 111.
Cambrian, Mount Stephen, British Columbia.
H.M. Ami 1891
REMARKS: Appears similar to figured specimen.

Obolella atlantica Walcott
[2]
Referred Specimens
NBMG 3270
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 70.
Cambrian, Div. C1b, Fosters Point, Smith Sound, Newfoundland.
REMARKS: Labelled type, possibly specimens referred to by Matthew for 1899 paper.

Obolus affinis (Billings)
REMARKS: SEE: Lingulobolus affinis (Billings)

Obolus escasonie (Matthew)
REMARKS: SEE: Lingulella escasonie Matthew

Obolus lens VAR **primus** Matthew
[5]
Referred Specimens

NBMG 3272
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 94.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 428.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3a, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1901
REMARKS: Labelled type, possibly specimens referred to by Matthew for paper.

Obolus lens VAR **primus** Matthew
[1]
Referred Specimen
NBMG 3273
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 94.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 428.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3a, Dugald Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1901
REMARKS: Labelled type, possibly specimens referred to by Matthew for paper.

Obolus pulcher Matthew
REMARKS: SEE: **Botsfordia pulcher** (Matthew)

Obolus selwyni (Matthew)
REMARKS: SEE; **Lingulella selwyni** Matthew

Obolus triparilis Matthew
[2]
Syntypes
NBMG 3274
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 94.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 136, pl. 8, figs. 4a-4c.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 536.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Bk., Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1901
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 58.

Obolus triparilis Matthew
[2]
Syntypes
NBMG 3275
Matthew, G.F. 1902. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 94.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 136, pl. 8, figs. 4a-4c.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 536.
Cambrian, Bourinot Gp., Dugald Fm., Div. E1c, Dugald Bk., Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1901
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 58.

Orthis electra VAR **major** Matthew
[4]
Syntypes
NBMG 3391
Matthew, G.F. 1893. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 100, pl. 7, figs. 3a-c.
Cambrian/Ordovician, Saint John Gp., Div. 3b, (Reversing) Falls, Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 59.

Orthis lenticularis VAR **yncoides** Matthew
[4]
Syntypes
NBMG 3276
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 9, sec.

IV, p. 49, pl. 12, figs. 10a-10c.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 277.
Cambrian/Ordovician, Saint John Gp., Div. 3b, King Street, Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. Paper sites locality as Germain Street.

Orthis quacoensis Matthew
[1]
Paralectotype ?
NBMG 3277
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 43.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 284.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 742.
Cambrian, Saint John Gp., Div. C1c, Seely Street, Saint John, New Brunswick.
REMARKS: Labelled type, possibly Portland locality mentioned by Matthew. SEE: ROM catalogue, p. 59.

Orthis quacoensis Matthew
[1]
Paralectotype ?
NBMG 3278
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 43.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 284.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 742.
Cambrian, Saint John Gp., Div. C1c, Seely Street, Saint John, New Brunswick.
REMARKS: Labelled type, possibly Portland locality mentioned by Matthew. SEE: ROM catalogue, p. 59.

Protorthis latourensis (Matthew)
REMARKS: SEE: Kurtogina latourensis Matthew

Protorthis quacoensis (Matthew)
[1]
Paralectotype ?
NBMG 4003
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 43.
Walcott, C.D. 1905. Proc. U.S. Nat. Mus., vol. 28, p. 284.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 742.
Cambrian, Saint John Gp., Div. C1c, Seely Street, Saint John, New Brunswick.
REMARKS: Labelled type, possibly Portland locality mentioned by Matthew. SEE: ROM catalogue, p. 61.

Protorthis quacoensis (Matthew)
REMARKS: SEE: Orthis quacoensis Matthew

Protosiphon kempanum Matthew
[6]
Syntypes
NBMG 3279
Matthew, G.F. 1897. Geol. Mag., vol. 4, p. 70, figs. 1-4.
Matthew, G.F. 1898. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 129, pl. 1, figs. 1a-1f.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 619, pl. 83, figs. 1a-1d.
Cambrian, Saint John Gp., Div. C1b2-4, Long Island, Kings Co., New Brunswick.
G.F. Matthew 1896
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 61.

Schizambon priscus Matthew
[1]
Syntype
NBMG 3280
Matthew, G.F. 1901. Nat.

Hist. Soc. N.B., Bull. XIX, p. 277, pl. 5, figs. 4a-4d.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 187, pl. 11, figs. 6a-6d.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 623.
Ordovician, Div. C3c2, McLeod Brook, Boisdale, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 63.

Schizambon priscus Matthew
[1]
Syntype
NBMG 3281
Matthew, G.F. 1901. Nat. Hist. Soc. N.B., Bull. XIX, p. 277, pl. 5, figs. 4a-4d.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 187, pl. 11, figs. 6a-6d.
Walcott, C.D. 1912. United States Geol. Surv., Monogr. 51, p. 623.
Ordovician, Div. C3c2, McLeod Brook, Boisdale, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 63.

Schizambon priscus Matthew
[2]
Referred Specimens
NBMG 3282
Matthew, G.F. 1901. Nat. Hist. Soc. N.B., Bull. XIX, p. 278.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 189.
Ordovician, Saint John Gp., Div. C3c2, Navy Island, Saint John, New Brunswick.
REMARKS: Labelled cotype, mentioned by Matthew at Navy Island.

Sphaerobolus spissus Billings
[4]
Figured Specimens
NBMG 3283
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 263, pl. 1, figs. 5a-5c.
Ordovician, Great Bell Island, Conception Bay, Newfoundland.
J.P. Howley ?
REMARKS: Labelled cotype, two specimens appear similar to fig. 5a.

Trematobolus kempanus (Matthew)
REMARKS: SEE: Protosiphon kempanus Matthew

MOLLUSCA, Monoplacophora

Parmophorella acadica (Dawson)
[4]
Figured Specimens
NBMG 3284
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 59, pl. 6, figs. 10, 10c.
Cambrian, Saint John Gp., Portland, (Saint John), New Brunswick.
G.F. Matthew
REMARKS: Labelled type, uncertain about figures 10a, 10b. SEE: ROM catalogue, p. 86.

Stenotheca acadica Dawson
REMARKS: SEE: Parmophorella acadica (Dawson)

MOLLUSCA, Gastropoda

Pupa pervetus Matthew
REMARKS: SEE; Pupa primaeva Matthew

Pupa primaeva Matthew
[1]
Holotype
NBMG 3332
Dawson, J.W. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 84.
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 98, 100, figs. 10a, 10b.

Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
W.J. Wilson 1886-88
REMARKS: Specimen labelled Pupa pervetus as in Dawson (1895), but no Matthew (1893) reference found as cited by Dawson. Specimen matches Matthew's (1895) illustration of Pupa primaeva.

MOLLUSCA, Miscellaneous

Hyolithes carinatus Matthew
[3]
Syntypes ?
NBMG 3156
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 42.
Cambrian, Mount Stephen, British Columbia.
REMARKS: Labelled n. sp., may be specimens referred to by Matthew, resemble figures. SEE; ROM catalogue, p. 103.

Hyolithes decipiens Matthew
[1]
Syntype or Holotype ?
NBMG 3290
Matthew, G.F. 1894. Trans. Roy. Soc. Can., vol. 11, sec. IV, p. 96.
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. 14, p. 130.
Cambrian, Saint John Gp., Hanford Brook, St. Martins, New Brunswick.
W.D. Matthew
REMARKS: Labelled type, may be Matthew's holotype ? SEE; ROM catalogue, p. 103.

Hyolithes excellens Billings
[8]
Referred Specimens
NBMG 3291
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 115-116.
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 194.
Cambrian, Fosters Point, Smith Sound, Newfoundland.
G.F. Matthew, 1898
REMARKS:Labelled type, uncertain if figured.

Orthotheca pugio Matthew
[>4]
Syntypes
NBMG 3292
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 111-112.
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 193.
Cambrian, Fosters Point, Smith Sound, Newfoundland.
REMARKS: Specimens labelled type, uncertain if figured. SEE: ROM catalogue, p. 103.

Orthotheca pugio Matthew
[2]
Syntypes
NBMG 3293
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 111-112.
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 193.
Cambrian, Fosters Point, Smith Sound, Newfoundland.
G.F. Matthew, 1898
REMARKS: Specimens labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 103.

Orthotheca sica Matthew
[1]
Syntype or Holotype ?
NBMG 3296
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 112-113.
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 193.
Cambrian, Smith Sound, Newfoundland.
G.F. Matthew, 1898

REMARKS: Labelled type, may Matthew's holotype, uncertain if figured. SEE: ROM catalogue, p. 104.

Orthotheca sicula Matthew
[1]
Syntype or Paratype ?
NBMG 3297
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 112-113.
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVIII, p. 193.
Cambrian, Smith Sound, Newfoundland.
G.F. Matthew, 1898
REMARKS: Labelled cotype, probably same as O. sica, other specimens have name changed. Uncertain if figured. SEE: ROM catalogue, p. 104.

ARTHROPODA, Trilobita

Acantholenus spiniger (Matthew)
[1]
Syntype or Figured Specimen ?
NBMG 3346
Matthew, G.F. 1889. Can. Rec. Sci. 3, p. 487.
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 61, pl. 13, fig. 4c.
Matthew, G.F. 1898. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 142, pl. 2, fig. 4c.
Cambrian/Ordovician, Saint John Gp., Div. 3a, Long Island, Kings Co., New Brunswick.
REMARKS: Appears similar to figure 4c in Trans. Roy. Soc. Can. papers. Labelled type, (pygidium). SEE: ROM catalogue, p. 104.

Agnostus acadicus VAR **declivis** Matthew
[4]
Syntypes
NBMG 3347; NBMG 3348
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 70, pl. 7, figs. 6a, 6b.
Matthew, G.F. 1896. Trans. N.Y. Acad. Sci., vol. 15, p. 219.
Cambrian, Saint John Gp., Div. 1d, Porters Brook, St. Martins, New Brunswick.
REMARKS: Labelled type, uncertain which are figured. SEE: ROM catalogue, p. 104.

Agnostus fallax VAR **vir** Matthew
[25]
'types' ?
NBMG 3349-3354
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 69.
Matthew, G.F. 1896, Trans. N.Y. Acad. Sci. 15, p. 215.
Cambrian, St. John Gp., Hanford Brook and Porters Brook, Seely St., Saint John, New Brunswick.
REMARKS: Labelled type, but possibly not types. SEE: ROM catalogue, p. 104.

Agnostus pisiformis affinis Matthew
[10]
Syntypes
NBMG 3355, 3356
Matthew, G.F. 1898. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 137, pl. 2, fig. 3.
Cambrian, Saint John Gp., Div. 3, Long Island, Kings Co., New Brunswick.
REMARKS: Labelled type, uncertain which specimens figured. SEE: ROM catalogue, p. 106.

Agnostus pisiformis VAR **validus** Matthew
[4]
Syntypes
NBMG 3357
Matthew, G.F. 1898. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 137.
Cambrian, Saint John Gp., Div. 3, Long Island, Kings Co., New

Brunswick.
REMARKS: Labelled type. Published as '**valida**'. SEE: ROM catalogue, p. 106.

Agnostus trisectus germanus Matthew
[8]
Syntypes ?
NBMG 3358-3360
Matthew, G.F. 1901. Nat. Hist. Soc. N.B., Bull. XIX, p. 279.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 221.
Cambrian, Div. C3b, McAdam Shore, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled 'n. sp.'

Agnostus vir Matthew
REMARKS: SEE: Agnostus fallax VAR vir Matthew

Agraulos articephalus Matthew
[8]
Syntypes
NBMG 3362
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 75, pl. 7, figs. 14a, 14b.
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. 14, p. 147.
Cambrian, Saint John Gp., Div. 1b3, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled type, uncertain if figured. Published as A. (?) **articephalus**. SEE: ROM: catalogue, p. 106.

Agraulos halliana Matthew
[4?]
Syntypes
NBMG 3363
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 132, pl. 1, figs. 2a-2m.
Cambrian, Saint John Gp., Div. 1c, Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. Published as **Strenuella** (?) **halliana** by Matthew. SEE: ROM catalogue, p. 117.

Agraulos whitfieldianus Matthew
[2]
Syntypes ? (long form)
NBMG 3364
Matthew, G.F. 1888, Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 130, pl. 2, figs. 1a-1f.
Cambrian, Saint John Gp., Div. 1c1, Porters Brook, St. Martins, New Brunswick.
REMARKS: Labelled 'long form types'. Published as **Agraulos** (?) **whitfieldianus** Matthew. Uncertain if figured. SEE: ROM catalogue, p. 106.

Anomocare spiniger Matthew
REMARKS: SEE: Acantholenus spiniger (Matthew)

Asaphellus homfrayi Salter VAR
[3]
Syntypes ?
NBMG 3365
Matthew, G.F. 1902. Nat. Hist. Soc. N.B., Bull. XX, p. 413, pl. 18, figs. 10a-10e.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 232, pl. 18, figs. 10a-10e.
Cambrian, Div. C3c2, McLeod Brook, Boisdale, Nova Scotia.
G.F. Matthew 1901
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 107. Nine other specimens in collection resemble figures.

Beregonia articephala (Matthew)
REMARKS: SEE: Agraulos articephalus Matthew

Beregonia elegans (Matthew)
REMARKS: SEE: Protolenus elegans Matthew

Corynexochus roemingeri Matthew
[1]
Syntype
NBMG 3155

Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 47, pl. 2, fig. 3.
Cambrian, Mount Stephen, British Columbia.
B.E. Walker 1899
REMARKS: Labelled cotype, resembles figured specimen.

Dawsonia dawsoni (Hartt)
REMARKS: SEE; Microdiscus dawsoni Hartt

Ellipsocephalus grandis Matthew
[1]
Syntype
NBMG 3367
Matthew, G.F. 1894. Trans. Roy. Soc. Can., vol. 11, sec. IV, p. 105, pl. 17, figs. 6a-6c.
Matthew, G.F. 1895. Trans N.Y. Acad. Sci. 14, p. 140.
Cambrian, Saint John Gp., Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 110.

Holasaphus centropyge Matthew
[2]
Syntypes or Figured Specimens
NBMG 3372
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 268, pl. 2, figs. 4a, 4b.
Cambrian, Div. E2a, McFee's Point, George River, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 111.

Holasaphus centropyge Matthew
[1]
Syntype or Figured Specimen ?
NBMG 3373
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 174, pl. 10. figs. 3a-3c.
Cambrian, Div. E2a, Young Point, George River, Cape Breton, Nova Scotia.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 111.

Leptoplastus latus Matthew
[15]
Syntypes
NBMG 3374
Matthew, G.F. 1891. Can. Rec. Sci. 4, p. 461.
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 54, pl. 3, figs. 10a-10c.
Cambrian/Ordovician, Saint John Gp., Div. 3b, Navy Island, Saint John, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 111.

Liostracus tener (Hartt)
[1]
'type' ?
NBMG 3837
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 137.
Cambrian, Saint John Gp., Div. 1c, Seely Street, Saint John, New Brunswick.
REMARKS: Not from type locality given in paper. Specimen labelled cotype. SEE: ROM catalogue, p. 112.

Metadoxides magnificus Matthew
REMARKS: SEE: Protolenus magnificus Matthew

Micmacca vaningeni Matthew
[1]
Syntype
NBMG 3375
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci, vol. 14, p. 142.
Cambrian, Saint John Gp., Div. 1b3, 4, Long Island, Kings Co., New Brunswick.
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 112.

Micmacca walcotti Matthew
[13]
Syntypes
NBMG 3377
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 79, pl. 4, figs. 5a-5d.
Cambrian, Manuels, Conception Bay, Newfoundland.
G.F. Matthew 1898
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 112.

Microdiscus dawsoni Hartt
[1]
Figured Specimen
NBMG 3924
Shimer, H.W. and Shrock, R.R. 1959. Index Foss. North America, p. 609, pl. 252, fig. 12.
Cambrian, Saint John Gp., Seely Street, or Hanford Brook, Saint John Co., New Brunswick.
REMARKS: Other specimens figured not located.

Microdiscus schucherti Matthew
[1]
Syntype
NBMG 3378
Matthew, G.F. 1896. Trans. N.Y. Acad. Sci. 15, p. 238, pl. 17, fig. 4a, b.
Cambrian, Troy, New York.
REMARKS: Labelled cotype, uncertain if figured. SEE: ROM catalogue, p. 113.

Neolenus granulatus Matthew
[1]
'type' ?
NBMG 3169
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 55, pl. 2, figs. 1a-1c.
Cambrian, Mount Stephen, British Columbia.
B.E. Walker ?
REMARKS: Labelled 'n. sp.'

Paradoxides abenacus Matthew
[1]
Syntype or Holotype
NBMG 3379
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 78, pl. 7, figs. 17a-17d.
Cambrian, Saint John Gp., Div. 1d, Porters Brook, St. Martins, New Brunswick.
REMARKS: Labelled type, may be Matthew's holotype ? Uncertain if figured. SEE: ROM catalogue, p. 113.

Paradoxides acadicus VAR **suricus** Matthew
[1]
Syntype
NBMG 3380
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 77, pl. 7, fig. 16.
Cambrian, Saint John Gp., Div. 1c1, Saint John, New Brunswick.
G.F. Matthew
REMARKS: Labelled type, from exchange collection. SEE: ROM catalogue, p. 113.

Paradoxides regina Matthew
[3]
casts
NBMG 4004-4006
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 119, pl. 3.
Cambrian, Saint John Gp., Div. 1c, Saint John, New Brunswick.
W.D. Matthew
REMARKS: 3 casts of original ? destroyed in fire, matches figure.

Protolenus elegans Matthew (W.D.)
[1]
Syntype
NBMG 3381
Matthew, G.F. 1892. Nat. Hist. Soc. N.B., Bull. X, p. 35. fig. 2.
Matthew, G.F. 1894. Trans. Roy. Soc. Can., vol. 11, sec.

IV, p. 100, pl. 17, figs.9a-9d.
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. 14, p. 147, pl. 11, figs. 3a-3e.
Cambrian, Saint John Gp., Div. 1b2, Hanford Brook, St. Martins. New Brunswick.
W.D. Matthew
REMARKS: Labelled cotype, appears similar to figure. SEE: ROM catalogue, p. 115.

Protolenus magnificus Matthew
[1]
Syntype ?
NBMG 3376
Matthew, G.F. 1899. Nat. Hist. Soc. N.B., Bull. XVII, p. 137.
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 83, pl. 8, fig. 1a-1e.
Cambrian, Manuel's Station, Conception Bay, Newfoundland.
G.F. Matthew 1898
REMARKS: Labelled 'n.sp.' SEE: ROM catalogue, p. 112.

Protolenus paradoxides Matthew
[1]
Syntype or Holotype
NBMG 3382
Matthew, G.F. 1892. Nat. Hist. Soc. N.B., Bull. X, p. 36. fig. 2
Matthew, G.F. 1894. Trans. Roy. Soc. Can., vol. 11, sec. IV, p. 101, pl. 17, figs. 10a, 10b.
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci. 14, p. 145, pl. 10, figs. 3a, 3b.
Cambrian, Saint John Gp., Div. 1b2, Hanford Brook, St. Martins. New Brunswick.
W.D. Matthew
REMARKS: Labelled type, may be Matthew's holotype ? Uncertain if figured. SEE: ROM catalogue, p. 115.

Solenopleura acadica Whiteaves
[1-4]
Cited or Figured Specimens ?
NBMG 3383
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 76, pl. 7, fig. 5.
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 157, pl. 2, figs. 5a, 5b, 6.
Cambrian, Saint John Gp., Porters Brook, St. Martins,
New Brunswick.
R.W. Ells ?
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 116.

Solenopleura bretonensis Matthew
[1]
Syntype
NBMG 3384
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 176, pl. 11, fig. 2a.
Cambrian, Bourinot Gp., Dugald Fm., Div. E3f, Gillis-Indian Brook, Escasonie, Cape Breton, Nova Scotia.
G.F. Matthew 1900
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 116.

Solenopleura orestes (Hartt)
[4]
Syntypes
NBMG 3385-3386
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 154, pl. 2, figs. 4a-4e.
Cambrian, Saint John Gp., Div. 1c, Hanford Brook, St. Martins, New Brunswick.
G.F. Matthew 1884
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 117.

Solenopleura robbii (Hartt)
[5]
Syntypes
NBMG 3387; NBMG 3388
Matthew, G.F. 1888. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 153, pl. 2, figs. 3a-3l.

Cambrian, Saint John Gp., Div. 1c, Saint John (Portland), Hanford Brook, New Brunswick.
REMARKS: Labelled type, uncertain if figured. SEE: ROM catalogue, p. 116.

Solenopleura robbii VAR **orestes** (Hartt)
REMARKS: SEE: Solenopleura orestes (Hartt)

Strenuella halliana Matthew
REMARKS: SEE: Agraulos halliana Matthew

Strenuella strenua VAR **robusta** Matthew
[1]
Holotype
NBMG 3389
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 76, pl. 4, fig. 3
Cambrian, Upper Etcheminian, Brigus Head, Conception Bay, Newfoundland.
REMARKS: Labelled type, appears similar to figured specimen.

Strenuella strenua VAR **robusta** Matthew
[1]
Paratype
NBMG 3390
Matthew, G.F. 1899. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 76.
Cambrian, Upper Etcheminian, Manuels, Conception Bay, Newfoundland.
REMARKS: Labelled cotype.

ARTHROPODA, Ostracoda

Beyrichia triceps Matthew
[3]
Syntypes
NBMG 3303
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 219.
Cambrian, Div. C2b, McLean Brook, Mira River, Cape Breton, Nova Scotia.
G.F. Matthew
REMARKS: Labelled type. SEE: ROM catalogue, p. 118.

Beyrichia triceps Matthew
[2]
Syntypes
NBMG 3304
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 219.
Cambrian, Div. C2b, McLean Brook, Mira River, Cape Breton, Nova Scotia.
G.F. Matthew
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 118.

Beyrichona planata Matthew
[6]
Paralectotypes ?
NBMG 3299
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci., vol. 14, p. 134-135.
Cambrian, Saint John Gp, Div. 1b2, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled type. SEE: ROM catalogue, p. 118.

Beyrichona tinea Matthew
[1]
Syntype ?
NBMG 3330
Matthew, G.F. 1886. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 66.
Cambrian, Saint John Gp., Div. 1b4, Hanford Brook, St. Martins, New Brunswick.
REMARKS: Labelled type. SEE: ROM catalogue, p. 119.

Beyrichona triceps (Matthew)
REMARKS: SEE: Beyrichia triceps Matthew

Bradoria robusta (Matthew)
REMARKS: SEE: Bradorona robusta Matthew

Bradorona observator Matthew
[1]
'type' ?
NBMG 3305
Matthew, G.F. 1902. Can. Rec. Sci., 8, p. 448.
Matthew, G.F. 1903. Geol. Surv. Can. Rpt. No. 797, p. 160.
Cambrian, Div. E1d, Boundary Brook, Escasonie, Cape Breton, Nova Scotia.
REMARKS: Labelled paratype.
SEE: ROM catalogue, p. 122.

Bradorona (?) **robusta** Matthew
[1]
Paralectotype ?
NBMG 3306
Matthew, G.F. 1898. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 132.
Cambrian, Saint John Gp., Div. C1b, Long Island, Kings Co., New Brunswick.
REMARKS: Labelled cotype. SEE: ROM catalogue, p. 121.

ARTHROPODA, Crustacea

Amphipeltis paradoxus Salter
[1]
Figured Specimen
NBMG 3001
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 278, pl. 2, fig. 6.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 2, fig. 4, 5.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
W. Lunn and C.F. Hartt 1863-64
REMARKS: According to Hessler (1969), Amphipeltis probably does not belong to the Peracarida.

Bunodella horrida Matthew
[2]
Holotype and Reverse ?
NBMG 3000
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 56, pl. 4, fig. 8.
Størmer, L. 1979. Merostomata, Pt. P, p. 17, fig. 11, 6.
Silurian, Jones Creek Fm., No. 2 shales, Cunningham Brook, Nerepis, New Brunswick.
G.F. Matthew 1886-88
REMARKS: Two specimens, may be halves of same.

Ceratiocaris pusillus Matthew
REMARKS: SEE: Rhinocaris pusillus

"**Rhinocaris pusillus**"
[3]
Syntype ?
NBMG 3556
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 56.
Silurian, Jones Creek Fm., Cunningham Brook, Nerepis, New Brunswick.
G.F. Matthew 1886-88
REMARKS: Published as Ceratiocaris by Matthew. Labelled type. Specimen at ROM listed as holotype.

"**Rhinocaris pusillus**"
[16]
Paratype ?
NBMG 3557
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 56.
Silurian, Jones Creek Fm., Cunningham Brook, Nerepis, New Brunswick.
G.F. Matthew 1886-88
REMARKS: Published as Ceratiocaris by Matthew. Labelled cotype. Specimen at ROM listed as holotype.

ARTHROPODA, Arachnoidea

Belinuropsis wigudensis Matthew
[2] *
Holotype
NBMG 3307; NBMG 3308

Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 116, pl. 1, figs. 3a-3d.
Størmer, L. 1979. Merostmata, Pt. P, p. P41, fig. 11, 8.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., Dadox. sst., Duck Cove, Bed 2, Saint John, New Brunswick.
A.G. Leavitt 1906; W. McIntosh
REMARKS: * Comprised of two specimens on separate rock fragments combined by Matthew as a single species.

Eurymartus (?) **spinulosus** Matthew
[1]
Holotype
NBMG 3004
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 276, pl. 2, fig. 9.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 2, fig. 2.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.

Eurymartus latus Matthew
[1]
Holotype
NBMG 3003
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 275, pl. 2, fig. 7.
Matthew G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 53, fig. 1, p. 59, pl. 2, fig. 1.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.

Eurymartus sp.
[1]
Figured Specimen
NBMG 3005
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 277, pl. 2, fig. 8.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 8, Saint John, New Brunswick.
REMARKS: Appears to be figured specimen.

Eurypterella ornata Matthew
[1]
Holotype
NBMG 3002
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 60, pl. 4, fig. 12.
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 99.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 1, fig. 2.
Miller, S.A. 1889. North Am. Geol. and Palaeon., p. 548.
Clarke, J.M. and Ruedemann, R. 1912. N.Y. State Mus. Mem. 14, p. 89, 93.
Copeland, M. and Bolton, T. 1960. Geol. Surv. Can., Bull. 60, p. 41.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W184.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
W.J. Wilson 1886-88
REMARKS: Eurypterella considered "dubious fossil" by Häntzschel (1975).

Palaeophonus arctus Matthew
[1]
Holotype
NBMG 3006
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 98, pl. 1, figs. 7a, 7b.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 1, fig. 3.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
W.J. Wilson 1886-88

ARTHROPODA, Insecta

Aedaeophasma acadica Matthew
[1]
Holotype
NBMG 3007
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 117, pl. 1, fig. 1.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
W.J. Wilson

Archaeoscolex corneus Matthew
[1]
Holotype
NBMG 3008
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 59, pl. 4, fig. 11.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 60, pl. 2, fig. 9.
Handlirsch, 1906-08. Die foss. Insek. Phylog. rezent. Formen., p. 338, fig. 1-14.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W180.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
W.J. Wilson 1886-88
REMARKS: Archaeoscolex considered "dubious fossil" by Handlirsch (1906-08) and reported in Häntzschel (1975).

Dyscritus vetustus Scudder
[1]
Holotype
NBMG 3009
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 176.
Scudder, S.H. 1880. Anniv. Mem. Bost. Soc. Nat. Hist., p. 20, pl. 1, fig. 4.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool., vol. 8, p. 281.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 6.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 8, Saint John, New Brunswick.
C.F. Hartt 1862-64

Geracus tubifer Matthew
[1]
Holotype
NBMG 3012
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 55, fig. 3.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.

Gerephemera simplex Scudder
[1]
Holotype
NBMG 3010
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 174.
Scudder, S.H. 1880. Anniv. Mem. Bost. Soc. Nat. Hist., p. 12, pl. 1, figs. 8, 8a.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool., vol. 8, p. 277.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 8.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
C.F. and J.W. Hartt 1862-64
REMARKS: The reverse was deposited by Scudder in the Boston Society of Natural History collections.

Geroneura wilsoni Matthew
[1]
Holotype ? (reverse ?)
NBMG 3011
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 57, pl. 4, fig. 10.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p.

60, pl. 2, fig. 12.
Copeland, M.J. 1957. Geol. Surv. Can., Mem. 286, p. 55, pl. 9, fig. 5.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
W.J. Wilson 1886-88
REMARKS: Holotype deposited at GSC, Ottawa, No. 8129 (Bolton, 1966). This specimen probably the reverse.

Homothetus erutus Matthew
[1]
Holotype ? (reverse ?)
NBMG 3013
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 95, pl. 1, fig. 11.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
W.J. Wilson 1886-88
REMARKS: Holotype at GSC, Ottawa, No. 8135 (Bolton, 1966). This specimen appears the same as figured reference.

Homothetus fossilis Scudder
[1]
Holotype
NMBG 3014
Dawson, J.W. 1867. Can. Nat. & Geol., 2nd series, vol. 3, p. 205, fig. 3.
Dawson, J.W. 1867. Geol. Mag., vol. 4, p. 387, pl. 17, fig. 3.
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 176.
Dawson, J.W. 1868. Acadian Geology, 2nd ed., p. 525, fig. 182.
Scudder, S.H. 1868. Am. Nat., vol. 1, p. 631, pl. 16, fig. 7.
Dawson, J.W. 1875. Life's Dawn on Earth, p. 140, fig. 123b.
Packard, A.S. 1880. Guide to the Study of Insects, p. 77, pl. 1, fig. 7.
Scudder, S.H. 1880. Anniv. Mem. Bost. Soc. Nat. Hist., p. 17, pl. 1, figs. 1, 2.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool, vol. 8, p. 278.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 9.
Zittel, K.A. 1887. Traité de Paléontol., Tome II, Pt. 1, p. 760, fig. 962.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 8, Saint John, New Brunswick.
C.F. Hartt 1862-64

Lithentomum harttii Scudder
[1]
Holotype
NBMG 3015
Dawson, J.W. 1867. Can. Nat. & Geol., 2nd series, vol. 3, p. 206, fig. 4.
Dawson, J.W. 1867. Geol. Mag., vol. 4, p. 387, pl. 17, fig. 4.
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 176.
Dawson, J.W. 1868. Acadian Geology, 2nd ed., p. 525, fig. 183.
Scudder, S.H. 1868. Am. Nat., vol. 1, p. 630, pl. 16, fig. 5.
Dawson, J.W. 1875. Life's Dawn on Earth, p. 140, fig. 123c.
Packard, A.S. 1880. Guide to the Study of Insects, p. 77, pl. 1, fig. 5.
Scudder, S.H. 1880. Anniv. Mem. Bost. Soc. Nat. Hist., p. 22, pl. 1, fig. 3.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool, vol. 8, p. 278.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 10.
Zittel, K.A. 1887. Traité de Paléontol., Tome II, Pt. 1, p. 761.
Lesley, P. 1889. Dict. of

Fossils, p. 351.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 8, Saint John, New Brunswick.
C.F. Hartt 1862-64
REMARKS: The reverse deposited by Scudder in the Boston Society of Natural History, now in the Museum of Comparative Zoology, Harvard University, MCZ 3853.

Platephemera antiqua Scudder
[1]
Holotype
NBMG 3016
Dawson, J.W. 1867. Can. Nat. & Geol., 2nd series, vol. 3, p. 205, fig. 2.
Dawson, J.W. 1867. Geol. Mag., vol. 4, p. 387, pl. 17, fig. 2.
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 175.
Dawson, J.W. 1868. Acadian Geology, 2nd ed., p. 524, fig. 181.
Scudder, S.H. 1868. Am. Nat., vol. 1, p. 630, pl. 16, fig. 3.
Packard, A.S. 1880. Guide to the Study of Insects, p. 77, pl. 1, fig. 3.
Nicholson, H.A. 1872. Man. Palaeontol., p. 185, fig. 128.
Dana, J.D. 1875. Man. of Geol., 2nd ed., p.273, fig. 550A.
Dawson, J.W. 1875. Life's Dawn on Earth, p. 140, fig. 123a,
Roemer, F. 1876. Leth. Geogn., pl. 31, fig. 9.
Scudder, S.H. 1880. Ann. Mem. Bost. Soc. Nat. Hist., p. 7, pl.1, fig 10.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool., vol. 8, p. 276.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 14.
Zittel, K.A. 1887. Traité de Paléontol., Tome II, Pt. 1, p. 758, fig. 959.
Lesley, P. 1889. Dict. of Fossils, p. 663, fig.
Dawson, J.W. 1889. Hand. of Geol., p. 82, fig. 96.
Dana, J.D. 1897. Rev. textbook of Geol., p. 284, fig. 295.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 7, Saint John, New Brunswick.
C.F. and J.W. Hartt 1862-64
REMARKS:The reverse deposited by Scudder in the Boston Society of Natural History, now in the Museum of Comparative Zoology, Harvard University, MCZ 8626.

Podurites saltator Matthew
[1]
Holotype
NBMG 3017 a,b
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 273, pl. 2, fig. 10.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 54, fig. 2.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
G.F. Matthew

Xenoneura antiquorum Scudder
[1]
Holotype
NBMG 3018
Dawson, J.W. 1867. Can. Nat. & Geol., 2nd series, vol. 3, p. 206, fig. 5.
Dawson, J.W. 1867. Geol. Mag., vol. 4, p. 387, pl. 17, fig. 5.
Scudder, S.H. 1868. Geol. Mag., vol. 5, p. 176.
Dawson, J.W. 1868. Acadian Geology, 2nd ed., p. 525, fig. 184.
Anonymous. 1869. Am. Nat., vol. 2, p. 163, fig. 1.
Dawson, J.W. 1875. Life's Dawn on Earth, p. 140, fig. 123d.
Scudder, S.H. 1880. Anniv.

Mem. Bost. Soc. Nat. Hist., p. 24, pl. 1, figs. 5, 6, 7.
Hagen, H.A. 1881. Bull. Mus. Comp. Zool., vol. 8, p. 279.
Scudder, S.A. 1881. Amer. J. Sci., vol. 21, pp. 111-117.
Lacoe, R.D. 1883. Wyom. Hist. Geol. Soc., Pub. No. 5, p. 15.
Zittel, K.A. 1887. Traité de Paléontol., Tome II, Pt. 1, p. 761, fig. 965.
Lesley, P. 1889. Dict. of Fossils, p. 1260, fig.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
C.F. and J.W. Hartt 1862-64
REMARKS:Reverse deposited by Scudder in the Boston Society of Natural History, now in the Museum of Comparative Zoology, Harvard University, MCZ 8268. This specimen often referred to because of the presence of supposed stridulating organ identified by Scudder.

ARTHROPODA, Chilopoda

Chilopus dubius Matthew
[1]
Holotype
NBMG 3019
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 110, pl. 1, fig. 6.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 60, pl. 1, fig. 9.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G.F. Matthew

Eileticus (?) **antiquus** Matthew
[1]
Holotype
NBMG 3020
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 109, pl. 1, fig. 4.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 60, pl. 1, fig. 6.
Hoffman, R.L. 1969. Myriapoda, Exclusive of Insecta, Pt. R, p. R604.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G.F. Matthew
REMARKS:Class, Order, Family of genus uncertain according to Hoffman (1969).

Ilyodes (?) **attenuata** Matthew
[1]
Holotype
NBMG 3021
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 109, pl. 1, fig. 5.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 60, pl. 1, fig. 5.
Hoffman, R.L. 1969. Myriapoda, Exclusive of Insecta, Pt. R, p. R605.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G.F. Matthew
REMARKS:Class, Order, Family of genus uncertain according to Hoffman (1969).

ARTHROPODA, Myriapoda

Euphoberia atava Matthew
[1]
Holotype
NBMG 3022
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 108, pl. 1, figs. 2, 2a.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 1, figs. 7, 7b.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G.F. Matthew

Palaeocampa (?) obscura Matthew
[1]
Holotype
NBMG 3023
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 108, pl. 1, fig. 1.
Matthew, G.F. 1897. Nat. Hist. Soc. N.B., Bull. XV, p. 59, pl. 1, fig. 10.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G.F. Matthew
REMARKS: According to Hoffman (1969), the genus name Palaeocampa probably does not belong to the myriapods.

ARTHROPODA, Trackways

Acripes incertipes Matthew
[1]
Syntype
NBMG 3024, 3026
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 3, fig. 1.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W61.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Reverse specimens labelled type.

Acripes incertipes Matthew
[1]
Syntype
NBMG 3025
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 3, fig. 2.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W61.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled type.

Acripes incertipes Matthew
[4]
Paratypes ?
NBMG 3027-3029
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W61.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimens labelled cotype.

Acripes leavitti Matthew
[1]
Holotype
NBMG 3033
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 3, fig. 3.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled type.

Acripes leavitti Matthew
[1]
Paratype
NBMG 3034
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 3, fig. 4.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint

John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled cotype.

Acripes minor Matthew
[1]
Holotype
NBMG 3030
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 1, fig. 4.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled type.

Acripes minor Matthew
[1]
Paratype
NBMG 3031
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122, pl. 1, fig. 5.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled cotype.

Acripes minor Matthew
[1]
Paratype
NBMG 3032
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 122.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Lower Cordaite Division, Barrack Point, Saint John, New Brunswick.
A.G. Leavitt 1908
REMARKS: Genus considered same as Diplichnites Dawson by Häntzschel (1975). Specimen labelled cotype.

WORMS, etc.

Spirorbis erianus Dawson
[3]
Referred Specimens
NBMG 3333-3335
Matthew, G.F. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 99, 100.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
C.F. Hartt and others ?
REMARKS: May be specimens mentioned by Matthew (1895).

ECHINODERMATA

Ophioglypha sarsii Lutken
[4]
Referred Specimens ?
NBMG 4007
Dawson, J.W. 1893. Canadian Ice Age. p. 218.
Quaternary, Duck Cove, Saint John, New Brunswick.
G. Stead
REMARKS: Possibly the specimen referred to by Dawson as occurring in Leda clay, near Saint John, N.B.

GRAPTOLITHINA

Bryograptus patens Matthew
[6]
Syntypes
NBMG 3149
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 95, pl. 7, figs. 1a- 1d.
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci., vol. 14, p. 265-268.
Ordovician, Saint John Gp., Div. 3c, Navy Island, Saint John, New Brunswick.
REMARKS: Listed as Div. 3b in paper. No types designated in publication, labelled as types. Uncertain if figured. SEE: ROM

catalogue, p. 140.

Clonograptus proximatus Matthew [8]
Syntypes
NBMG 3150
Matthew, G.F. 1895. Trans. N.Y. Acad. Sci., vol. 14, p. 265-268.
Ordovician, Saint John Gp., Div. 3c, Navy Island, Saint John, New Brunswick.
REMARKS: Labelled type. SEE: ROM catalogue, p. 141.

Clonograptus (?) **spinosus** Matthew [5]
Syntypes
NBMG 3151
Matthew, G.F. 1892. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 97, pl. 7, figs. 2a-2b.
Ordovician, Saint John Gp., Div. 3b, Navy Island, Saint John, New Brunswick.
REMARKS: No types designated in publication, labelled as types. Uncertain if figured. SEE: ROM catalogue, p. 141.

TRACE FOSSILS AND PROBLEMATICA

Ctenichnites ingens Matthew [3]
Syntypes
NBMG 3336; NBMG 3341; NBMG 3342
Matthew, G.F. 1891. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 151, pl. 14, figs. 1-12, and ? 13-15.
Cambrian, Saint John Gp., Div. 2c, King Street, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Specimen 3336 labelled type, uncertain if figured.

Cyathospongia (?) **eozoica** Matthew [1]
Holotype
NBMG 3627
Matthew, G.F. 1890c. Nat. Hist. Soc. N.B., Bull. IX, p. 42, fig. 1.
Rauff, H. 1893. Neues Jahrb. Minerol., Geol., Palaeontol., Jahrg., vol. 2, p. 59, fig. 1.
Schindewolf, O.H. 1956. in Lotze, F., (ed), Geotektonisches Symposium zu Ehren., p. 472.
Häntzschel, W. 1962. Trace Fossils and Problematica, Pt. W, p. 234.
Cloud, P.E., Jr. 1968. in Drake, E.T. (ed), Evolution and Environment, p. 1-72.
Hofmann, H.J. 1971. Geol. Surv. Can., Bull. 189. p. 21, pl. 4, fig. 9.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W173.
Precambrian, Green Head Gp., Drury's Cove, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Suspected to be of inorganic origin.

Eoichnites linnaeanus Torrell [3]
Figured or Cited Specimens
NBMG 3337; NBMG 3338; NBMG 3340
Matthew, G.F. 1891. Trans. Roy. Soc. Can., vol. 8, sec. IV, p. 148, pl. 13, figs. 2-6.
Cambrian, Saint John Gp., Div. 2c, King Street, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Specimens not labelled as types, may be specimens referred to, uncertain if figured.

Halichondrites graphitiferus Matthew [1]
Holotype
NBMG 3145
Matthew, G.F. 1890c. Nat. Hist. Soc. N.B., Bull. IX, p. 43, fig. 2.
Rauff, H. 1893. Neues Jahrb. Minerol., Geol., Palaeontol., Jahrg., vol. 2, p. 60, fig. 2.

Cloud, P.E., Jr. 1968. in Drake, E.T. (ed), Evolution and Environment, p. 1-72, text-figs. 1-9.
Hofmann, H.J. 1971. Geol. Surv. Can., Bull. 189, p. 22, pl. 4, fig. 8.
Häntzschel, W. 1975, Trace Fossils and Problematica, Pt. W, p. W175.
Miller, R.F. 1987. Can. J. Earth Sci. 24, p. 1913, fig. 1b.

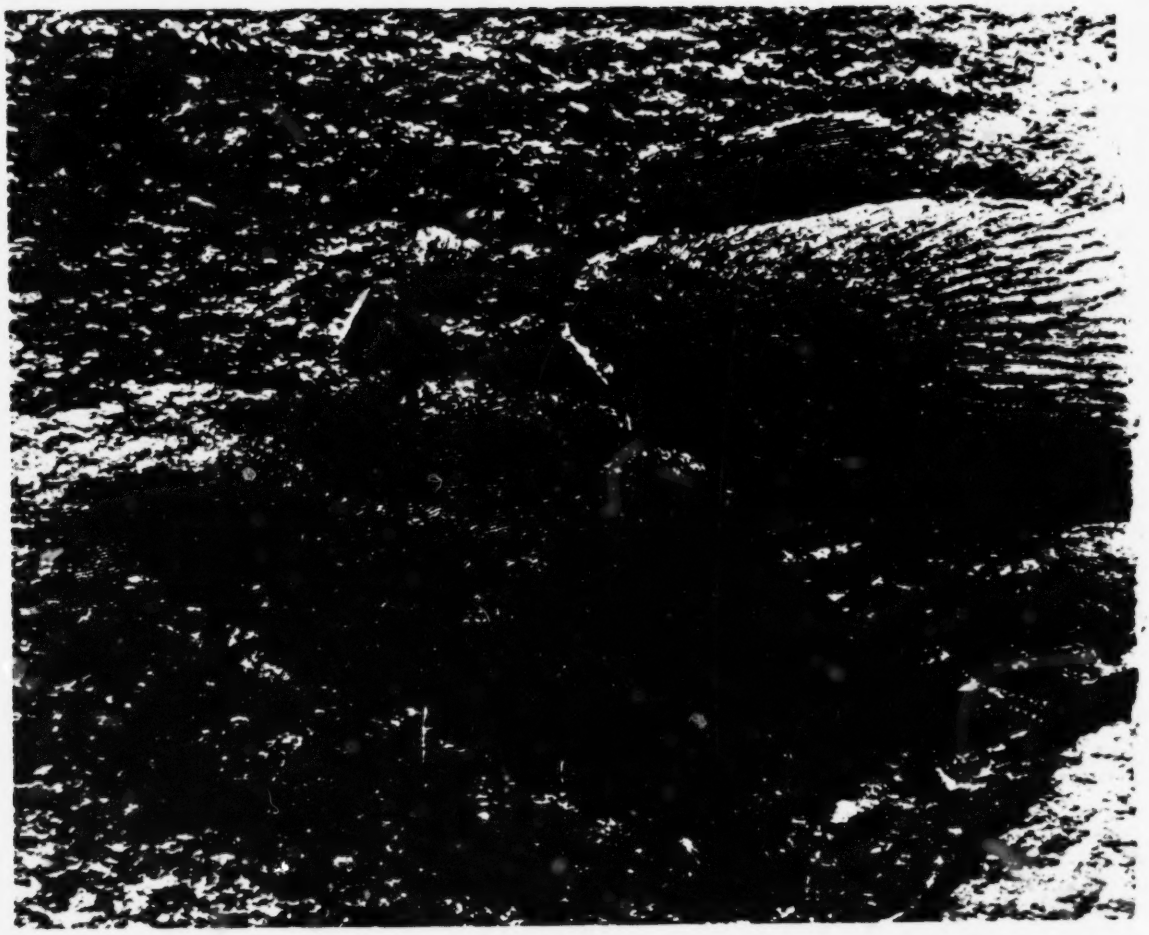
Precambrian, Green Head Gp., Reversing Falls, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Regarded as inorganic in nature.

Halichondrites graphitifera (us) Matthew
[6]
Cited Specimens
NBMG 3146
Miller, R.F. 1987. Can. J. Earth Sci. 24, p. 1914.
Precambrian, Green Head Gp., Reversing Falls, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Regarded as inorganic in nature.

"Plectella cambrica"
[2]
Cited Specimens
NBMG 3148
Matthew, G.F. 1890a. Nat. Hist. Soc. N.B., Bull. IX, p. 33.
Miller, R.F. 1987. Can. J. Earth Sci. 24, p. 1914.
Precambrian ?, East side, Musquash Harbour, St. John Co., New Brunswick.
G.F. Matthew 1889
REMARKS: Probably the specimens referred to by G.F. Matthew ir 1890 paper. Regarded as inorganic in nature.

"Plectella prima"
[13]
Cited Specimens
NBMG 3147
Hoffman, H.J. 1971. Geol. Surv. Can., Bull. 189, p. 22.
Miller, R.F. 1987. Can. J. Earth Sci. 24, p. 1914.
Precambrian, Green Head Gp., Reversing Falls, Saint John, New Brunswick.
G.F. Matthew 1889
REMARKS: Specimens referred to by Hoffman in discussion of Halichondrites graphitiferus Matthew. Regarded as inorganic in nature.

PART II VERTEBRATES



Diplaspis acadica Matthew
NBMG 3072
Silurian
Nerepis, New Brunswick

AMPHIBIA/REPTILIA FOOTPRINTS

Asperipes avipes Matthew
[1]
Holotype
NBMG 3035
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 101, figs. 3a, 3b.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 88, pl. 1, figs. 2a, 2b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 27, pl. 16, fig. 1.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Reverse of specimen in Redpath Museum type collection, No. 2.1136. SEE: RM catalogue, p. 70.

Barillopus unguifer Matthew
[1]
Holotype
NBMG 3036
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 104, figs. 5a, 5b.
Matthew, G.F. 1903. Nat. Hist. Soc. N.B., Bull. XXI, p. 104, pl. 2, fig. 2.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 113.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 94.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
P.W. McNaughton 1897
REMARKS: Listed as Baropus unguifer Matthew in Nat. Hist. Soc. N.B.(1903) reference.

Baropus unguifer (Matthew)
REMARKS:SEE:
Barillopus unguifer Matthew

Batrachites quadrifidus Matthew
REMARKS:SEE:
Dromillopus quadrifidus Matthew

"**Batrichnites celer**"
[1]
Holotype
NBMG 3040
Matthew, G.F. 1903. Nat. Hist. Soc. N.B., Bull. XXI, p. 106, pl. 2, fig. 3.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 112.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
P.W. McNaughton 1897
REMARKS: Specimen labelled Batrichnites celer. Published by Matthew (1903) as Dromopus celer and listed in Haubold (1971) as Dromillopus (Dromopus) celer (Matthew).

Bipesia bilobata Matthew
[1]
Holotype
NBMG 3037
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 121, pl. 4, fig. 1.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W182.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm.,

"Fern Ledges", Saint John, New Brunswick.
REMARKS: Sometimes 'Bipezia'. Considered to be of doubtful vertebrate origin by Häntzschel (1975).

Bipesia bilobata Matthew
[1]
Paratype
NBMG 3038
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 121, pl. 4, fig. 2.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W182.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Sometimes 'Bipezia'. Considered to be of doubtful vertebrate origin by Häntzschel (1975).

Dromillopus celer (Matthew)
REMARKS:SEE:
Batrichnites celer

Dromillopus quadrifidus Matthew
[1]
Holotype
NBMG 3039
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 91, pl. 1, fig. 5.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11, pl. 9, fig. 6.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Reverse of specimen in Redpath Museum type collection, No. 2.1146. Listed as Batrachites quadrifidus Matthew.
SEE: RM catalogue, p. 71.

Dromopus celer Matthew
REMARKS:SEE:
Batrichnites celer

Hylopus (?) **variabilis** Matthew
[1]
Holotype
NBMG 3041
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 120, pl. 2, figs. 1a, 1b.
Abel, O. 1935. Vorzeitliche Lebensspuren, p. 78.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W185.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Considered as doubtful "footprints" by Abel (1935).

Hylopus (?) **variabilis** Matthew
[1]
Paratype
NBMG 3042
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 120, pl. 2, figs. 2, 3.
Abel, O. 1935. Vorzeitliche Lebensspuren, p. 78.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W185.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Considered as doubtful "footprints" by Abel (1935).

Hylopus (?) **variabilis** Matthew
[1]
Paratype
NBMG 3043
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 120.
Abel, O. 1935. Vorzeitliche Lebensspuren, p. 78.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W185.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New

Brunswick.
REMARKS: Considered as doubtful "footprints" by Abel (1935).

Isocampe lepreauense Sarjeant & Stringer
[1]
Figured Specimen
NBMG 3044
Sarjeant, W.A.S. and Stringer, P. 1978. Can. J. Earth Sci., 15, p. 598, fig. 3.
Triassic, Lepreau Fm., Lepreau River, Lepreau, New Brunswick.
P. Stringer, R. Pickerill, R.H. Grant, 1974
REMARKS: cast, original in place.

Limnopus ? mcnaughtoni (Matthew)
REMARKS:SEE:
Theranopus mcnaughtoni Matthew

Nanopus (?) vetustus Matthew
[1]
Holotype
NBMG 3045
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 121, pl. 2, figs. 4, 5.
Abel, O. 1935. Vorzeitliche Lebensspuren, p. 78.
Häntzschel, W. 1975. Trace Fossils and Problematica, Pt. W, p. W186.
Pennsylvanian, Westphalian B, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Considered as doubtful "footprints" by Abel (1935).

Theranopus (?) mcnaughtoni Matthew
[1]
Holotype
NBMG 3046
Matthew, G.F. 1903. Nat. Hist. Soc. N.B., Bull. XXI, p. 103, pl. 2, fig. 1.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec IV, p. 112.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 17.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
P.W. McNaughton 1897
REMARKS: Correct generic spelling should be Thenaropus King, 1845. Listed in Haubold as Limnopus (Theranopus?) mcnaughtoni (Matthew).

AMPHIBIA/REPTILIA FOOTPRINTS-CASTS

Anthichnium obtusum (Matthew)
REMARKS:SEE:
Nanopus obtusus Matthew

Anthichnium quadratum (Matthew)
REMARKS:SEE:
Nanopus quadratus Matthew

Asperipes avipes Matthew
Original, NBMG and RM
Cast of Holotype or reverse
NBMG 3048
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 101, figs. 3a, 3b.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV., p. 88, pl. 1, figs. 2a, 2b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 27, pl. 16, fig. 1.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: NBMG 3035 and RM 2.1136.
SEE: RM catalogue, p. 70.

Asperipes caudifer Dawson
Original, RM

Cast of Holotype
NBMG 3049
Dawson, J.W. 1863. Air Breathers of the Coal Period, p. 8, pl. 1, fig. 3.
Dawson, J.W. 1882. Trans. Roy. Soc., vol. 173, p. 653.
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 102.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 112, pl. 3, fig. 3.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 90, pl. 2, figs. 1a, 1b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 27.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir. J.W. Dawson
REMARKS: Original RM No. 3163, Hylopus caudifer. SEE: RM catalogue, p. 72.

Asperipes flexilis Matthew
Original, RM
Cast of Holotype
NBMG 3050
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 89, pl. 1, figs. 3a-c.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1137.
SEE: RM catalogue, p. 70.

Asperipes flexilis Matthew
Original, RM
Cast of Paratype
NBMG 3051
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 89, pl. 6, fig. 4.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1138.
SEE: RM catalogue, p. 70.

Barillopus arctus Matthew
Original, RM
Cast of Holotype
NBMG 3052
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 95, pl. 3, figs. 1a- 1c.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11, pl. 9, fig. 4.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1144.
SEE: RM catalogue, p. 70.

Barillopus confusus Matthew
Original, RM
Cast of Holotype
NBMG 3053
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 95, pl. 3, figs. 2a, 2b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1143.
SEE: RM catalogue, p. 70.

Baropezia abscissa Matthew
Original, RM
Cast of Holotype
NBMG 3054

Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 101, pl. 5, figs. 4a, 4b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 15, pl. 11, fig. 9.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.

Pennsylvanian, Westphalian B, Cumberland Gp., Coal Measures So., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 12.780.
SEE: RM catalogue, p. 71. Listed as occurring at Sydney, NS by Haubold (1971) and RM catalogue.

Baropezia sydnensis Matthew
Original, RM
Cast
NBMG 3055
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 106, figs. 1a, 1b.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 100, pl. 5, figs. 3a, 3b.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 15, pl. 11, fig. 6.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.

Pennsylvanian, Westphalian C-D, Pictou Gp., Sydney, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 12.780.
SEE: RM catalogue, p. 71.

Cursipes dawsoni Matthew
Original, RM
Cast of Holotype
NBMG 3056
Matthew, G.F. 1903. Can. Rec. Sci., vol. 9, p. 103, figs. 4a, 4b.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 93, pl. 1, fig. 4.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 19, pl. 13, fig. 10.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, P. 302.

Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1145.
SEE: RM catalogue, p. 71.

Cursipes levis Matthew
Original, RM
Cast of Holotype
NBMG 3057
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 93, pl. 2, fig. 3.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.

Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1147.
SEE: RM catalogue, p. 71.

Dromillopus quadrifidus Matthew
Original, NBM, RM
Cast of Holotype
NBMG 3058
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 91, pl. 1, fig. 5.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 11, pl. 9, fig. 6.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, 302.

Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original NBMG 3039, RM No. 2.1146. SEE: RM catalogue, p. 71.

Dromopus velox Matthew
Original, RM
Cast of Holotype
NBMG 3059
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 86, pl. 2, figs. 2a, 2b.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol., 23, p. 303.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1139.
SEE: RM catalogue, p. 71.

Hylopus (?) **caudifer** (Dawson)
REMARKS:SEE:
Asperipes caudifer Dawson

Hylopus (?) **trifidus** Dawson
REMARKS:SEE:
Ornithoides trifidus (Dawson)

Hylopus hardingi Dawson
Original, King's College ?
Cast of Holotype
NBMG 3060
Dawson, J.W. 1863. Air Breathers of the Coal Period, p. 7, fig. 2.
Dawson, J.W. 1868. Acadian Geology, p. 356, fig. 139.
Dawson, J.W. 1882. Trans. Roy. Soc., vol. 173, p. 653.
Dawson, J.W. 1895. Trans. Roy. Soc. Can., vol. 12, sec IV, p. 78.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 111, pl. 1, figs. 3, 4.
Matthew, G.F. 1904. Nat. Hist. Soc. N.B., Bull., No. XXII, p. 247, fig. 5.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 82, pl. 1, figs. 1a, 1b, pl. 6, fig. 2.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 14, pl. 11, fig. 1.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Mississippian, Tournaisian, Mabou Gp., West Bay Fm., Parrsboro, Nova Scotia.
Dr. Harding 1846 ?
REMARKS: Original, King's College, Nova Scotia ?

Hylopus logani Dawson
Original, ?
Cast of Holotype
NBMG 3061
Dawson, J.W. 1863. Air Breathers of the Coal Period, p. 5.
Dawson, J.W. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 78.
Matthew, G.F. 1904. Nat. Hist. Soc. N.B. Bull., No. XXII, p. 247.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 85, pl. 6, fig. 1.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p. 14.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Mississippian, Tournaisian, Horton Gp., Horton Bluffs, Nova Scotia.
Sir. W.E. Logan 1841
REMARKS: Original not located.

Matthewichnus velox (Matthew)
REMARKS:SEE:
Dromopus velox Matthew

Megapezia pineoi Matthew
Original, RM
Cast of Holotype
NBMG 3062
Matthew, G.F. 1903. Can Rec. Sci., vol. 9, p. 107.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 103, pl. 2, figs. 4a, 4b, pl. 6, fig. 6.
Haubold, H. 1971. Ichnia

Amphib. Reptil. fossilium, p. 14, pl. 11, fig. 5.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Mississippian, Tournaisian, Horton Gp., Parrsboro, Nova Scotia.
G. Pineo
REMARKS:Specimen labelled Horton, 1903 reference given as Parrsboro. Original RM No. 3162.
SEE: RM catalogue, p. 72.

Nanopus obtusus Matthew
Original, RM
Cast of Paratypes
NBMG 3063
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 98, pl. 5, figs. 1a-1d.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Two specimens on the same slab. Original RM No. 2.1133, 2.1134. SEE: RM catalogue, p. 72.

Nanopus quadratus Matthew
Original, RM
Cast of Paratype
NBMG 3064
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol 10, sec. IV, p. 98, pl. 5, figs. 2a, 2b.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1135.
SEE: RM catalogue, p. 73.

Nanopus quadratus Matthew
Original, RM
Cast of Paratype
NBMG 3065
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 98.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 302.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1135.
SEE: RM catalogue, p. 73.

Ornithoides adamsi Matthew
Original, RM
Cast of Holotype
NBMG 3066
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 97, pl. 4, fig. 2.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Sir J.W. Dawson
REMARKS: Original RM No. 2.1141.
SEE: RM catalogue, p. 73.

Ornithoides trifidus (Dawson)
Original, RM
Cast of Holotype
NBMG 3067
Dawson, J.W. 1895. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 78.
Matthew, G.F. 1903. Can. Rec, Sci., vol. 9, p. 104, figs. 6a, 6b.
Matthew, G.F. 1903. Trans. Roy. Soc. Can., vol. 9, sec. IV, p. 113.
Matthew, G.F. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 96, pl. 4, fig. 1c.
Haubold, H. 1971. Ichnia Amphib. Reptil. fossilium, p.

11, pl. 9, fig. 5.
Sarjeant, W.A.S. and Mossman, D.J. 1978. Palaeogeog., Palaeoclim., Palaeoecol. 23, p. 303.
Pennsylvanian, Westphalian B, Cumberland Gp., Joggins, Nova Scotia.
Mr. Devine
REMARKS: Original RM No. 2.1142, Hylopus (?) trifidus. SEE: RM catalogue, p. 72.

Pseudobradypus caudifer (Dawson)
REMARKS:SEE:
Asperipes caudifer Dawson

Quadropedia levis (Matthew)
REMARKS:SEE:
Cursipes levis Matthew

Salichnium adamsi (Matthew)
REMARKS:SEE:
Ornithoides adamsi Matthew

FISHES

Cyathaspis acadica (Matthew)
REMARKS:SEE:
Diplaspis acadica (Matthew)

Diplaspis acadica (Matthew)
[1]
Holotype or reverse
NBMG 3072
Matthew, G.F. 1887. Can. Rec. Sci., vol. 2, p. 251.
Matthew, G.F. 1887. Can. Rec. Sci., vol. 2, p. 323.
Matthew, G.F. 1887. Nat. Hist. Soc. N.B., Bull. VI, p. 69.
Matthew, G.F. 1889. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 49, pl. 4, figs. 1-4.
Matthew, G.F. 1891. Amer. Geol., vol. 8, p. 61-62.
Woodward, A.S. 1891. Cat. Foss. Fish. BM(NH), p. 173.
Claypole, E.W. 1892. Q. Jl. geol. Soc. Lond., vol. 48, p. 547.
Whiteaves, J.F. 1898. Rept. Brit. Assoc. Advmt. Sci. 1897, p. 656.
Hay, O.P. 1902. U.S. Geol. Surv., Bull. 179, p. 340.
Lambe, L.M. 1905. Trans. Roy. Soc. Can., vol. 10, sec. IV, p. 33, 40.
Eastman, C.R. 1907. N.Y. State Mus. Nat. Hist., Mem. 10, p. 12.
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 9.
Eastman, C.R. 1908. Rep. Iowa geol. Surv. 18, p. 72, p. 280.
Lambe, L.M. 1912. Trans. Roy. Soc. Can., vol. 5, sec. IV, p. 3.
Kiaer, J. 1924. Skr. VidenskSelsk. Christiana, 1, 6, p. 124.
Moodie, R.L. 1926. Biologia gen., vol. 2, p. 67.
Stetson, H.C. 1928. Am. J. Sci., vol. 216, p. 225.
Hay, O.P. 1929. Sec. Bib. Cat. Foss. Vert. N. Am., vol. 1, p. 635.
Kiaer, J. and Heintz, A. 1935. Skr. Svalbard Ishavet., vol. 40, p. 34.
Denison, R.H. 1956. Fieldiana, Geol., 11, 8, p. 385.
Denison, R.H. 1964. Fieldiana, Geol., 13, 5, p. 359, fig. 3.
Gardiner, B.G. 1966. Life Sci. Contrib. 68, Roy. Ont. Mus., p. 22.
Silurian, Jones Creek Fm., Cunningham Brook, Nerepis, New Brunswick.
G.F. Matthew 1886-88
REMARKS: Reverse at Royal Ontario Museum, No. 1117.

Elonichthys browni (Jackson)
[1]
Reference Specimen
NBMG 3073
Dawson, J.W. 1878 (1877). Can. Nat., vol. 8, p. 339.
Dawson, J.W. 1878. Acadian

Geology, p. 101 (suppl.).
Lambe, L.M. 1910.
Gardiner, B.G. 1966. Life Sci. Contrib. 68, Roy. Ont. Mus., p. 61.
Mississippian, Albert Fm., Albert Mines, New Brunswick.
REMARKS: Original of cast examined by Dawson for his revision of Palaeoniscid fishes of Albert County. Specimen damaged.

Palaeoniscid jacksoni Dawson
REMARKS:SEE:
Elonichthys browni (Jackson)

Pteraspis acadica Matthew
REMARKS:SEE:
Diplaspis acadica (Matthew)

MAMMALS

Mammut americanum (Kerr)
[1]
Reference Specimen
NBMG 3906
Harington, C.R. 1978. Nat. Mus. Nat. Sci., Syllogeus 15, p. 14.
Schroeder, J. and Arseneault, S. 1978. Géogr. phys. Quat. 32, p. 255.
Quaternary, Middle to Late Wisconsin, Hillsborough, Albert Co., New Brunswick.
C. Osman 1936
REMARKS: Specimen recently restored by NMNS, Ottawa. Consists of several hundred pieces not yet sub-numbered.

PART III PLANTS

Annularia longifolia leavitti
Matthew
NBMG 3423
Pennsylvanian
Saint John, New Brunswick

PRECAMBRIAN

Archaeozoon acadiense Matthew
[1]
Figured, Cited Specimen
NBMG 3200
Hofmann, H.J. 1971. Geol. Surv. Can., Bull. 189, p. 56, pl. 18, fig. 2.
Hofmann, H.J. 1974. Can. J. Earth Sci. 11, p. 1099.
Precambrian, Green Head Gp., Green Head Peninsula, Saint John, New Brunswick.
REMARKS: Large slab with cut and polished surface.

Archaeozoon acadiense Matthew
[1]
'type' ?
NBMG 3201
Matthew, G.F. 1907. Nat. Hist. Soc. N.B., Bull. XXV, p. 550.
Precambrian, Green Head Gp., Green Head Peninsula, Saint John, New Brunswick.
REMARKS: Specimen labelled "(type) resting layer, showing branching canals" by Matthew but probably not referred to in publication.

Archaeozoon acadiense Matthew
[2]
Referred Specimens ?
NBMG 3838, 3839
Matthew, G.F. 1907. Nat. Hist. Soc. N.B., Bull. XXV, p. 550.
Precambrian, Green Head Gp., location unknown, probably from the "Narrows" of the St. John River, Saint John, New Brunswick.
W.D. Matthew
REMARKS: Specimens collected by W.D. Matthew, possibly referred to by G.F. Matthew, 1907.

Archaeozoon acadiense Matthew
[2]
Referred Specimens ?
NBMG 3840, 3841
Matthew, G.F. 1907. Nat. Hist. Soc. N.B., Bull. XXV, p. 550.
Precambrian, Green Head Gp., Douglas Avenue, Saint John, New Brunswick.
G. Stead 1893
REMARKS: Specimens collected by G. Stead, probably referred to by Matthew, 1907.

DEVONIAN

Archaeopteris hibernica geniculata Matthew
[1]
Holotype
NBMG 3393
Matthew, G.F. 1918. Trans. Roy. Soc. Can., vol. 11, sec. IV, p. 101, pl. 1, fig. 1.
Upper Devonian, Kiltorkan, Ireland.
T. Johnson

Arthrostigma arietense Matthew
[7]
Syntypes
NBMG 3596-3602
Matthew, G.F. 1913. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 89.
Upper Devonian, Beaver Harbour, New Brunswick.
G.F. Matthew 1910
REMARKS: Specimens labelled type. Designated Silurian by Matthew.

Arthrostigma arietense Matthew
[1]
Paratype
NBMG 3604
Matthew, G.F. 1913. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 89.
Upper Devonian, Beaver Harbour, New Brunswick.
G.F. Matthew 1910
REMARKS: Specimen labelled cotype. Designated Silurian by Matthew.

Bothrodendron (Cyclostigma) kiltokense Haughton
[1]
Figured Specimen

NBMG 3392
Matthew, G.F. 1918. Trans. Roy. Soc. Can., vol. 11, sec. 4, p. 105, pl. 4, fig. 1
Upper Devonian, Kiltorcan, Ireland.
T. Johnson

Himanophyton castorense Matthew [33]
Syntypes
NBMG 3605-3624
Matthew, G.F. 1913. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 87.
Upper Devonian, Beaver Harbour, New Brunswick.
G.F. Matthew 1910
REMARKS: Specimens labelled type. Uncertain which specimen figured. Designated Silurian by Matthew.

Himanophyton castorense Matthew [5]
Syntypes
NBMG 3625-3626
Matthew, G.F. 1913. Trans. Roy. Soc. Can., vol. 6, sec. IV, p. 87.
Upper Devonian, Beaver Harbour, New Brunswick.
G.F. Matthew 1910
REMARKS: Specimens labelled cotype. Designated Silurian by Matthew.

Psilophyton ellsi Matthew [6]
Paratypes or Syntypes
NBMG 3590-3595
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 191.
Lower Devonian, Tobique Gp., Little Pokiok River, Carleton Co., New Brunswick.
R.W. Ells
REMARKS: Specimens labelled cotype, no type or holotype located.

MISSISSIPPIAN

Hysterites aneimitis Matthew [2]
Syntypes
NBMG 3587
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 189.
Mississippian, Horton Gp., Gaspereau River, Nova Scotia
REMARKS: Labelled type.

Hysterites aneimitis Matthew [2]
Syntypes
NBMG 3588
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 189.
Mississippian, Horton Gp., Gaspereau River, Nova Scotia
REMARKS: Labelled type.

Hysterites aneimitis Matthew [1]
Syntype
NBMG 3589
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 189.
Mississippian, Horton Gp., Gaspereau River, Nova Scotia.
C.F. Hartt
REMARKS: Labelled cotype.

Rhizomorpha polymorpha Matthew [1]
Holotype ?
NBMG 3583
Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 188, pl. 1, figs. 2, 3.
Mississippian, Horton Gp., Mill Brook, Gaspereau River, Nova Scotia.
C.F. Hartt
REMARKS: Specimen labelled type, with two photographed areas.

Rhizomorpha polymorpha Matthew [2]
Paratypes ?
NBMG 3584; 3585

Matthew, G.F. 1907. Trans. Roy. Soc. Can., vol. 1, sec. IV, p. 188.
Mississippian, Horton Gp., Mill Brook, Gaspereau River, Nova Scotia.
C.F. Hartt
REMARKS: Specimens labelled cotype.

PENNSYLVANIAN

Alethopteris discrepens latus Matthew
[1]
Figured Specimen
NBMG 3395
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 83, pl. 2, fig. 7.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Labelled type, published as Johannophyton discrepans Dawson

Annularia ligata Matthew
[2]
Syntypes
NBMG 3422
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 128, pl. 2, fig. 4.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 97.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 7?, Saint John, New Brunswick.
REMARKS: Uncertain if figured, two "types" and two "n. sp.". Not considered a new species by Stopes.

Annularia longifolia leavitti Matthew
[1]
Holotype
NBMG 3423
Matthew, G.F. 1906. Nat. Hist. Soc. N.B., Bull. XXIV, p. 396, pl. 9.
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 124, pl. 7, fig. 1.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 22.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Dadoxylon Sst., Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1905
REMARKS: Labelled type.

Annularia recurva Matthew
[1]
Syntype
NBMG 3418
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 128, pl. 2, fig. 1.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 97.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
REMARKS: Labelled type. Not considered a new species by Stopes.

Annularia recurva Matthew
[1]
Syntype
NBMG 3417
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 128, pl. 2, fig. 2.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 97.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
REMARKS: Labelled type. Not considered a new species by Stopes.

Annularia recurva Matthew
[1]
Syntype
NBMG 3420
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 128, pl. 2, fig. 3.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. No. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 97.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
REMARKS: Labelled type. Not considered a new species by Stopes.

Asterophyllites fasciculatus Matthew
[1]
Holotype
NBMG 3429
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 121, pl. 1, fig. 2.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 98.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 7 or 8, Saint John, New Brunswick.
REMARKS: Labelled type. Not considered a new species by Stopes.

Asterophyllites (?) **fissus** Matthew
[1]
Holotype or Syntype
NBMG 3430
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 121, pl. 6, fig. 6.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 98.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 7 or 8, Saint John, New Brunswick.
REMARKS: Labelled type. Not considered a new species by Stopes.

Asterophyllites (?) **fissus** Matthew
[1]
Figured Specimen or Syntype
NBMG 3431
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 121, pl. 6, fig. 5.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 98.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 7 or 8, Saint John, New Brunswick.
REMARKS: Not considered a new species by Stopes.

Asterophyllites parvula Dawson
[2]
Figured Specimens
NBMG 3437; 3438
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 122, pl. 6, figs. 1, 2 ?
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 20.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Barrack Point, Bed 1, Saint John, New Brunswick.
G.F. Matthew
REMARKS: Labelled type, "doubtful whether the name should be retained" according to Stopes.

Asterophyllites parvula Dawson
VAR
[1]
Figured Specimen
NBMG 3435; 3436
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec.

IV, p. 123, pl. 6, fig. 3.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 20.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
G. Stead 1889
REMARKS: Labelled type. "doubtful whether the name should be retained" according to Stopes.

Calamites geniculosus Matthew
[1]
Syntype
NBMG 3442
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 109, pl. 2, fig. 5.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 17.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Lower Cordaite Shale, Saint John, New Brunswick.
REMARKS: Labelled type. Included with Calamites sp. by Stopes.

Calamites geniculosus Matthew
[1]
Syntype
NBMG 3444
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec. IV, p. 109, pl. 8, fig. 1.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Lower Cordaite Shale, Saint John, New Brunswick.
REMARKS: Labelled type. Included with Calamites sp. by Stopes.

Cardiocarpon crampii Hartt
[1]
Figured Specimen
NBMG 3450
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 94, pl. 25, fig. 68.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
C.F. Hartt
REMARKS: Labelled type. Appears the same as Stopes figure.

Ginkgophyton leavitti Matthew
[1]
Syntype
NBMG 3462
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, fig. 1.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Probably not a new genus according to Stopes.

Ginkgophyton leavitti Matthew
[1]
Syntype
NBMG 3459
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, fig. 2.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Probably not a new genus according to Stopes.

Ginkgophyton leavitti Matthew [1]
Syntype
NBMG 3461
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, fig. 3.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Labelled n.sp. Probably not a new genus according to Stopes.

Ginkgophyton leavitti Matthew [1]
Syntype
NBMG 3460
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, fig. 5.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p.101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Labelled n.sp. Probably not a new genus according to Stopes.

Ginkgophyton leavitti Matthew [1]
Syntype
NBMG 3458
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, fig. 5.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Probably not a new genus according to Stopes.

Ginkgophyton leavitti Matthew [2]
Syntypes
NBMG 3464
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 87, pl. 4, figs. 9, 10.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 101.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Dadoxylon sst", Duck Cove, Saint John, New Brunswick.
A.G. Leavitt 1909
REMARKS: Additional specimens in same box not figured. Probably not a new genus according to Stopes.

Johannophyton discrepens (Dawson)
REMARKS:SEE:
Alethopteris discrepens latus Matthew

Pseudobaiera mcintoshi Matthew [1]
Syntype or Holotype
NBMG 3508
Matthew, G.F. 1906. Nat. Hist. Soc. N.B., Bull. XXIV, p. 394, pl. 8, fig. 1.

Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Matthew, G.F. 1911. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 16.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 68.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Duck Cove, Saint John, New Brunswick.
W. McIntosh
REMARKS: Labelled type. Same as Rhacopteris busseana according to Stopes.

Pseudobaiera mcintoshi Matthew
[1]
Syntype or Paratype
NBMG 3506
Matthew, G.F. 1906. Nat. Hist. Soc. N.B., Bull. XXIV, p. 394. pl. 8, fig. 3.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Matthew, G.F. 1911. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 16, fig. 3.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 68.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Duck Cove, Saint John, New Brunswick.
W. McIntosh
REMARKS: Labelled cotype. Same as Rhacopteris busseana according to Stopes.

Pseudobaiera mcintoshi Matthew
[1]
Cited specimen or Syntype
NBMG 3505
Matthew, G.F. 1906. Nat. Hist. Soc. N.B., Bull. XXIV, p. 394.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Matthew, G.F. 1911. Trans. Roy. Soc. Can, vol. 4, sec. IV, p. 16.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 68.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Duck Cove, Saint John, New Brunswick.
W. McIntosh
REMARKS: Labelled cotype. Specimen must be Matthew's type referred to by Stopes, however, not figured by Matthew. Same as Rhacopteris busseana according to Stopes.

Pseudobaiera mcintoshi flabellata Matthew
[1]
Holotype
NBMG 3507
Matthew, G.F. 1906. Nat. Hist. Soc. N.B., Bull. XXIV, p. 396, pl. 8, fig. 7.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 248.
Matthew, G.F. 1911. Trans. Roy. Soc. Can., vol. 4, sec. IV, p. 17, fig. 9.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 68.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 2, Saint John, New Brunswick.
REMARKS: Labelled type. Same as Rhacopteris busseana according to Stopes.

Rhacopteris busseana Stur
[1]
Figured Specimen or Syntype
NBMG 3515
Stopes, M.C. 1914. Geol. Surv. Can., Memoir 41, p. 68, pl. 17, fig. 43, text fig. 13.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Duck Cove, Saint John, New Brunswick.
W. McIntosh
REMARKS: Labelled cotype. Reverse of NBMG 3505.

Sphenophyllum antiquum Dawson
[1]
Figured Specimen
NBMG 3525
Matthew, G.F. 1906. Trans. Roy. Soc. Can., vol. 12, sec.

IV, p. 129, pl. 3, fig. 3.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 24.
Pennsylvanian, Cumberland Gp., Lancaster Fm., Barrack Point, Saint John, New Brunswick.
REMARKS: Labelled type. Exact locality unknown. Specimen badly corroded.

Sphenophyllum gemma Matthew
[1]
Holotype
NBMG 3522
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 96, pl. 6, fig. 7.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir, 41, p. 25.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Bed 1, Saint John, New Brunswick.
W.J. Wilson
REMARKS: Labelled 'n.sp.' Matthew's paper states type at GSC. NBM specimen matches figure.

Sphenophyllum innocens Matthew
[1]
Holotype
NBMG 3524
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 96, pl. 6, fig. 8.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can Memoir 41, p. 105.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
W.J. Wilson
REMARKS: Labelled 'n.sp.' Matthew's paper states type at GSC. NBM specimen matches figure.

Sphenophyllum latum Matthew
[1]
Holotype
NBMG 3521
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 95, pl. 6, fig. 5.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir, 41, p. 25.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Labelled 'n.sp.'

Sphenophyllum latum minus Matthew
[1]
Holotype
NBMG 3526
Matthew, G.F. 1910. Trans. Roy. Soc. Can., vol. 3, sec. IV, p. 95, pl. 6, fig. 6.
Matthew, G.F. 1910. Nat. Hist. Soc. N.B., Bull. XXVIII, p. 247.
Jongmans, W.J. 1911. Anleitung zur Bestimmung der Karbonpflanzen... p. 374.
Stopes, M.C. 1914. Geol. Surv. Can. Memoir 41, p. 25.
Pennsylvanian, Cumberland Gp., Lancaster Fm., "Fern Ledges", Saint John, New Brunswick.
REMARKS: Labelled 'n.sp.

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